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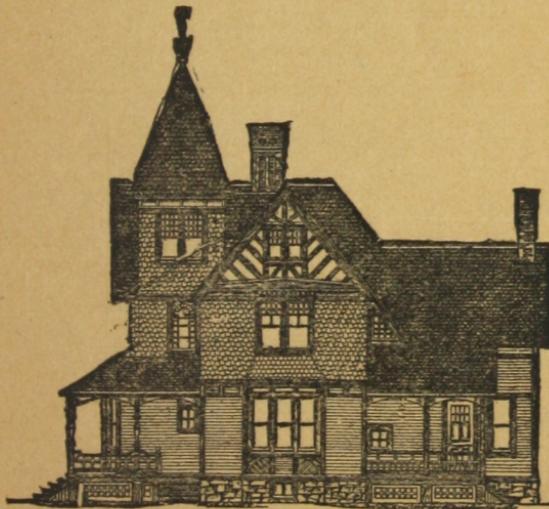
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6967

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OGILVIE'S HOUSE PLANS, —OR— HOW TO BUILD A HOUSE.



A Book worth its Weight in Gold to any person who intends to Build a House.

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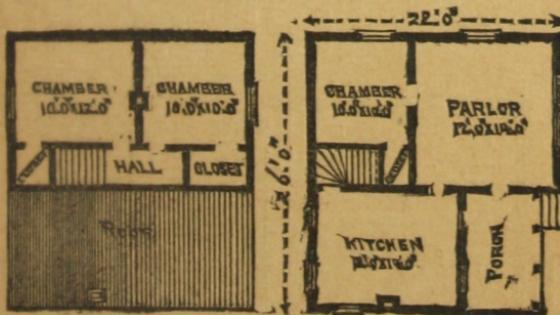
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DESIGN No. 1.

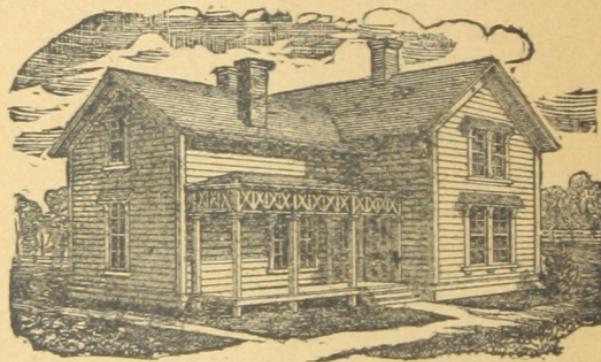
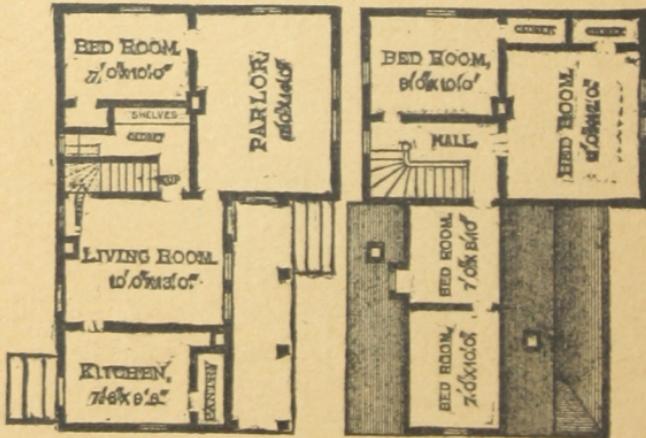


Five Room Cottage.

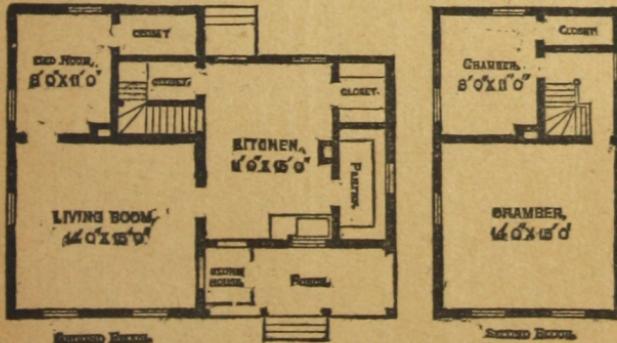
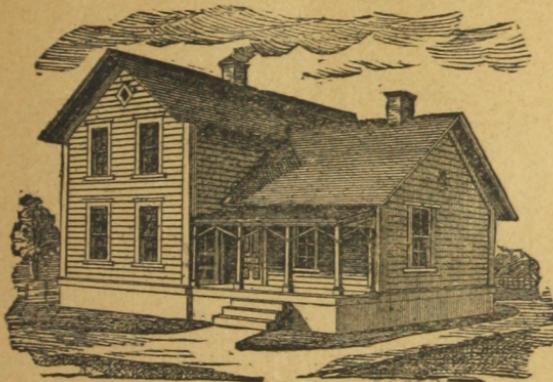


Very Cheap and Comfortable.

DESIGN No. 2.

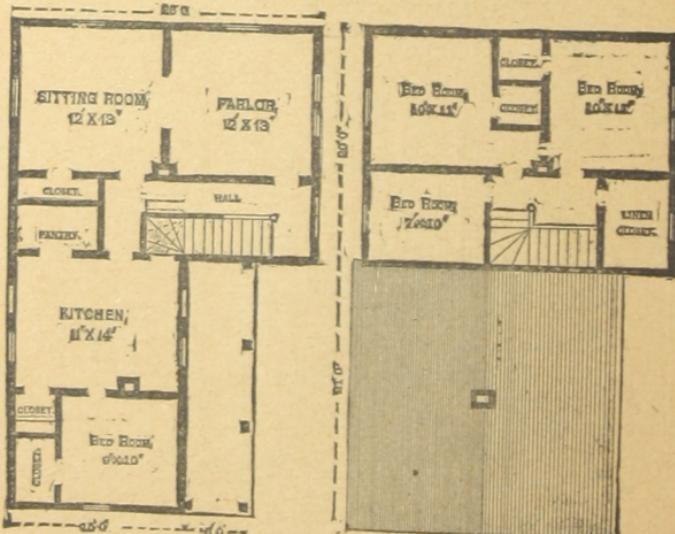
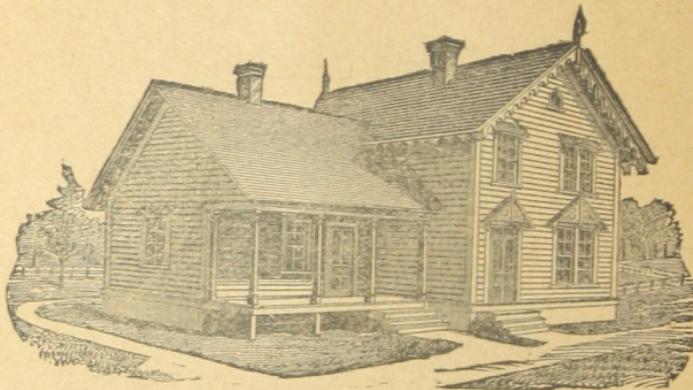
*Eight Room Dwelling,**Suitable for Farm or Village.*

DESIGN No. 3.



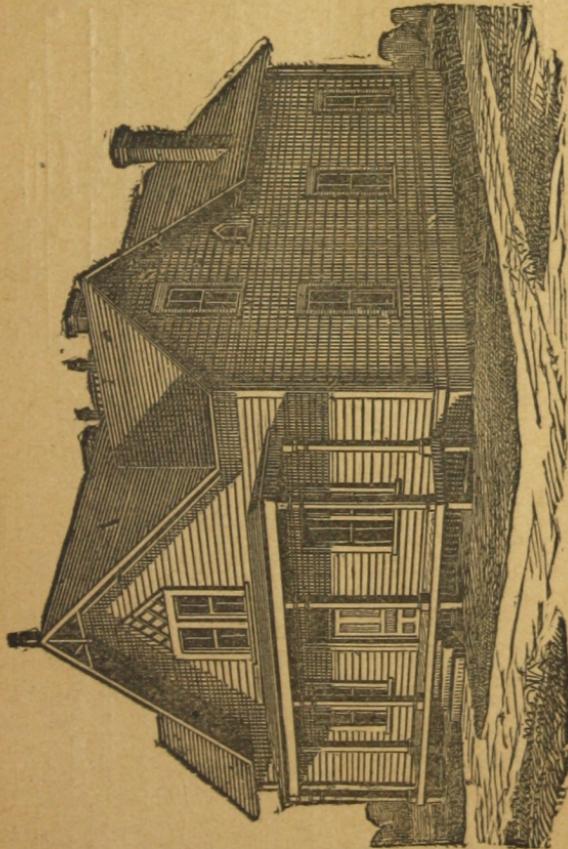
A very convenient Five Room Cottage.

DESIGN No. 5.



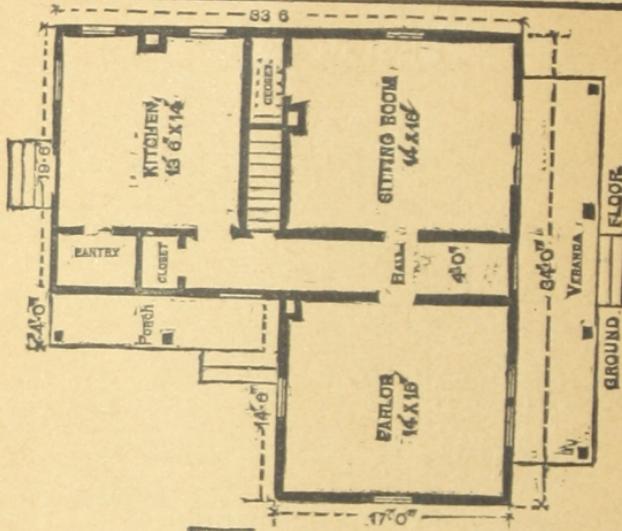
An attractive and convenient Eight Room Cottage.

DESIGN No. 6.

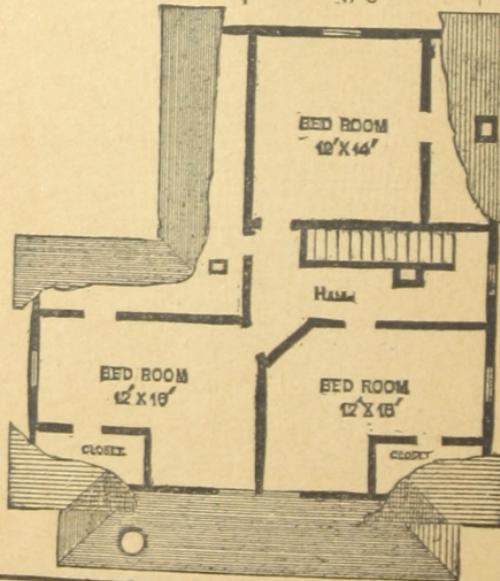


A convenient Six Room House.

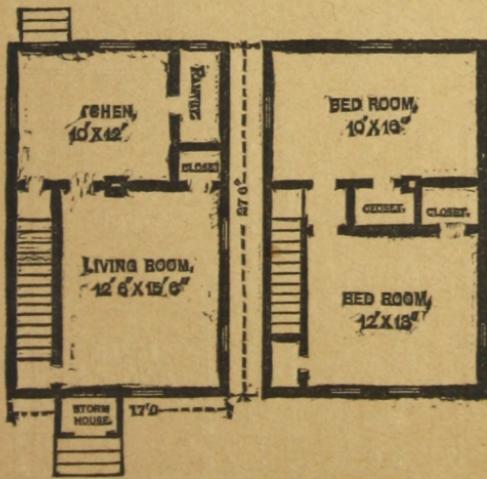
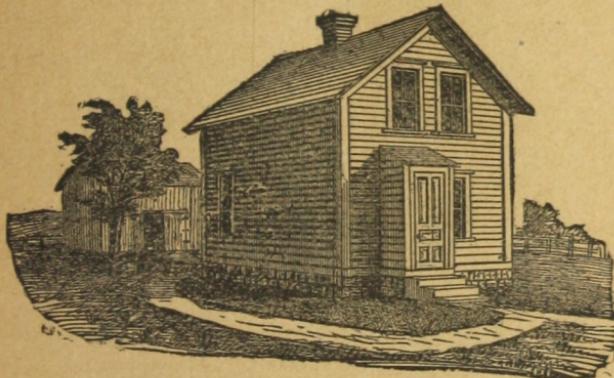
(See Plans on next page.)



Plan for Design No. 6.

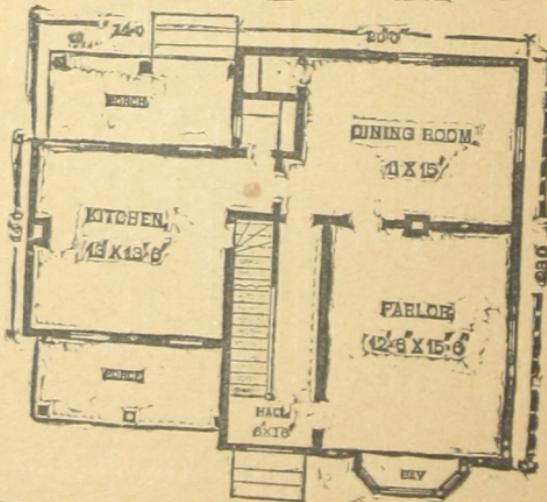
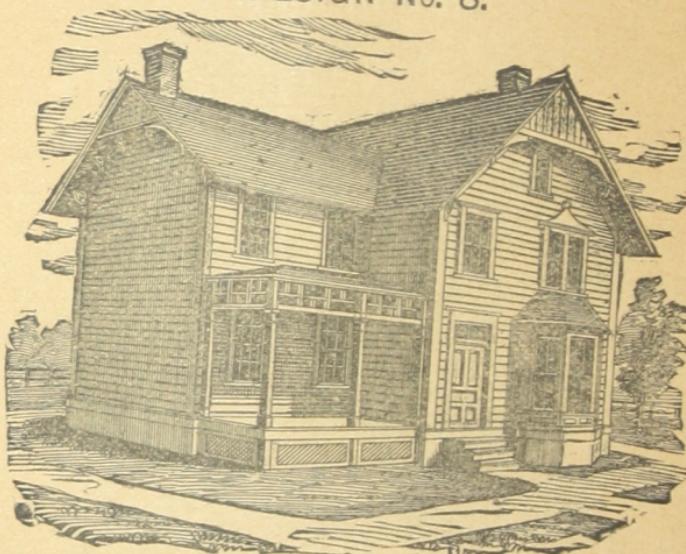


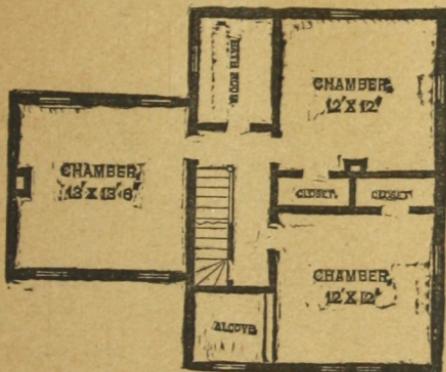
DESIGN No. 7.



A very Cheap House for small Farm or Village Tenement.

DESIGN No. 8.



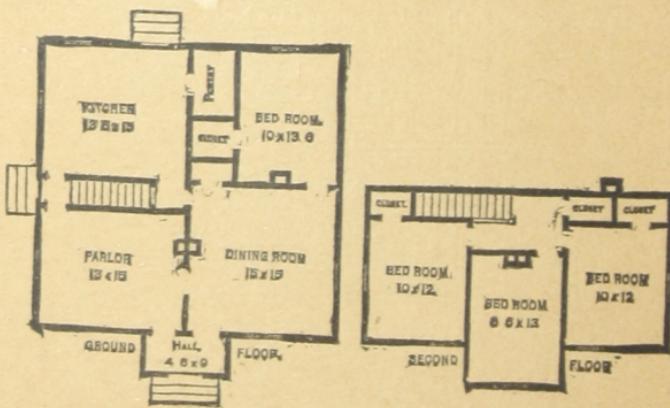
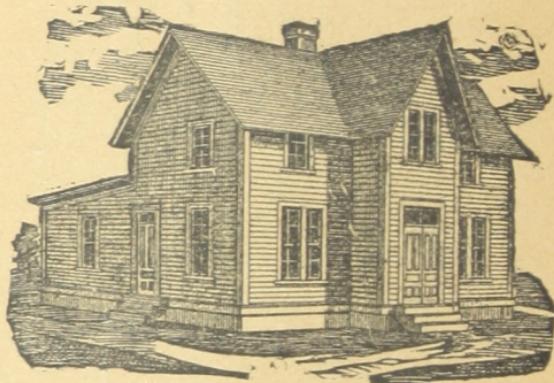
*Second Story, Design No. 8.*

To find the number of bricks required in a building: Rule—Multiply the number of cubic feet by $22\frac{1}{2}$. The number of cubic feet is found by multiplying the length, height and thickness (in feet) together. Bricks are usually made 8 inches long, 4 inches wide and 2 inches thick; hence it requires 27 bricks to make a cubic foot without mortar, but it is generally assumed that the mortar fills 1-6 of the space.

Partitions unsupported from underneath the floors should be supported from the walls by means of a simple truss. This can be made by setting two pieces of scantling into the walls on either side, at the floor, to abut against each other at the ceiling or against a collar-beam over the doors. This plan will obviate the sinking of floors so often seen under partitions.

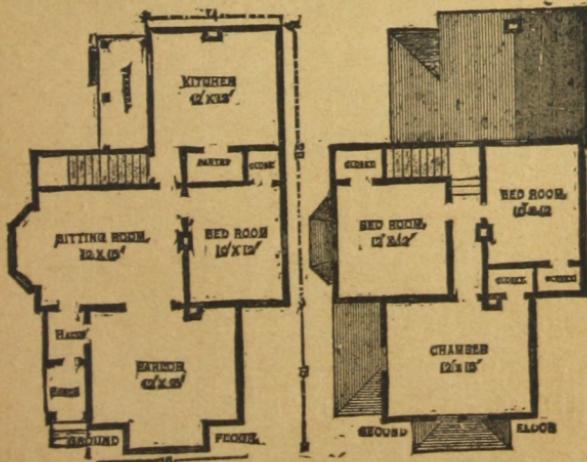
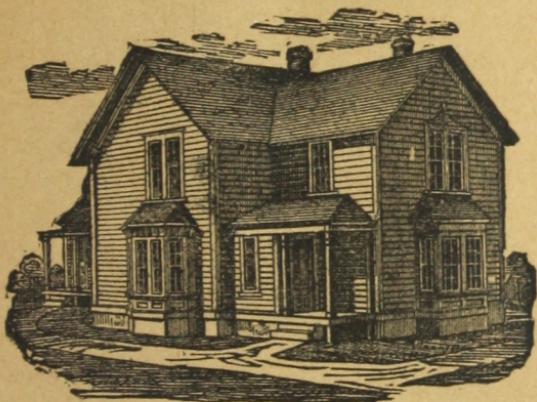
Putty, for plastering, is a very fine cement made of lime only. It is thus prepared: Dissolve in a small quantity of water, as two or three gallons, an equal quantity of fresh lime, constantly stirring it with a stick until the lime be entirely slaked, and the whole becomes of a suitable consistency, so that when the stick is taken out of it, it will but just drop therefrom; this, being sifted or run through a hair sieve, to take out the gross parts of the lime, is fit for use. Putty differs from fine stuf in the manner of preparing it, and its being used without hair.

DESIGN No. 10.



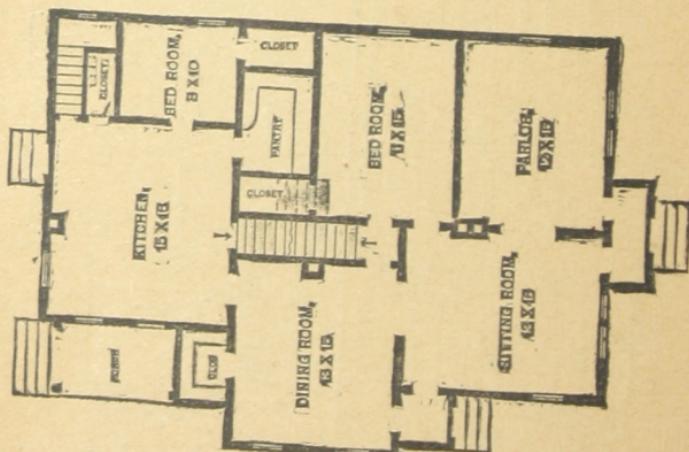
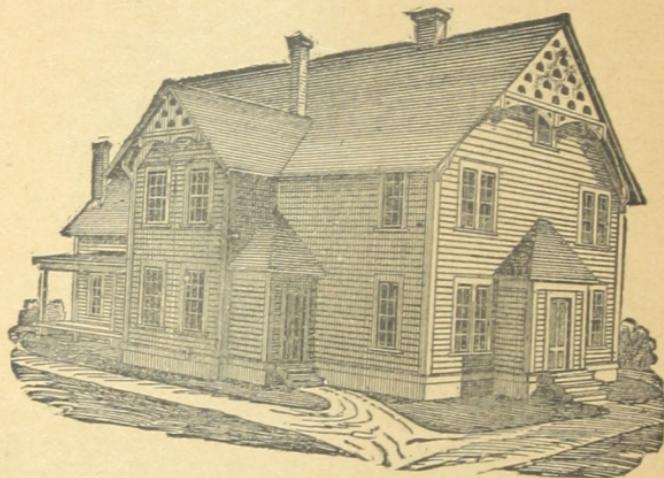
This can easily be made larger by making it all two stories high, which would give quite a large house.

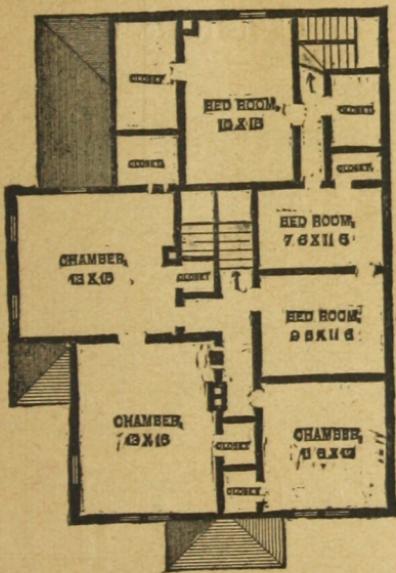
DESIGN No. 11.



A very handsome and convenient Seven Room Residence.

DESIGN No. 12.





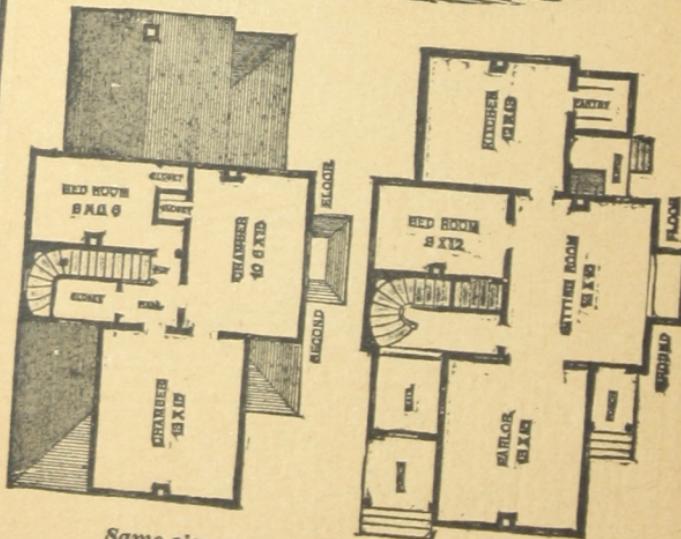
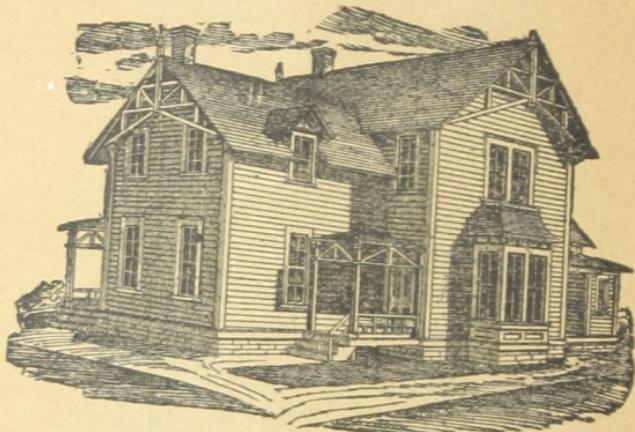
Design 12 is a very well arranged, large House, capable of accommodating a large family, thoroughly provided with closets, etc.

MEASURES OF CAPACITY.

The following table will often be found convenient, taking inside dimensions:

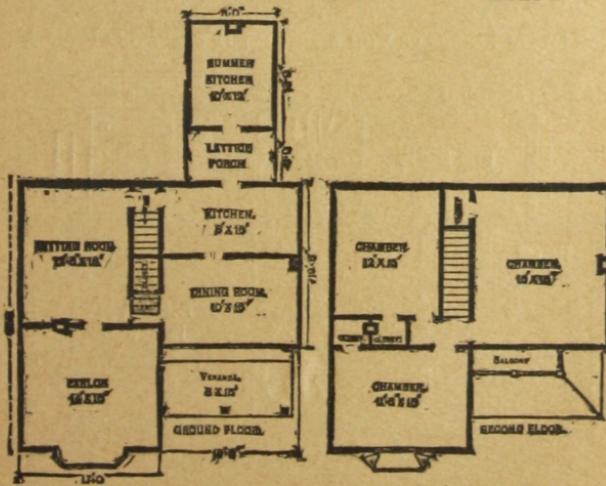
- A box 24 in. x 24 in. x 14.7 will contain a barrel of 31½ gallons.
- A box 15 in. x 14 in. x 11 in. will contain 10 gallons.
- A box 8½ in. x 7 in. x 4 in. will contain a gallon.
- A box 4 in. x 4 in. x 3.6 in. will contain a quart.
- A box 24 in. x 28 in. x 16 in. will contain 5 bushels.
- A box 16 in. x 12 in. x 11.2 in. will contain a bushel.
- A box 12 in. x 11.2 in 8 in. will contain a half bushel.
- A box 7 in. x 6.4 in. x 12 in. will contain a peck.
- A box 8.4 in. x 8 in. x 4 in. will contain a half peck, or 4 dry quarts.
- A box 6 in. x 5 3-5 in., and 4 in. deep, will contain a half gallon.
- A box 4 in. x 4 in., and 2 1-10 deep, will contain a pint.

DESIGN No. 13.



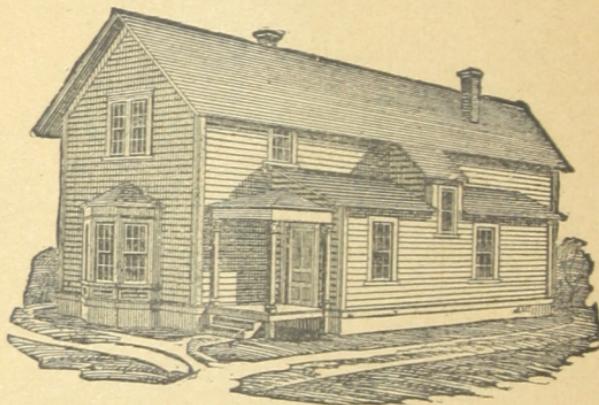
Same size as No. 11, differently arranged.

DESIGN No. 14.

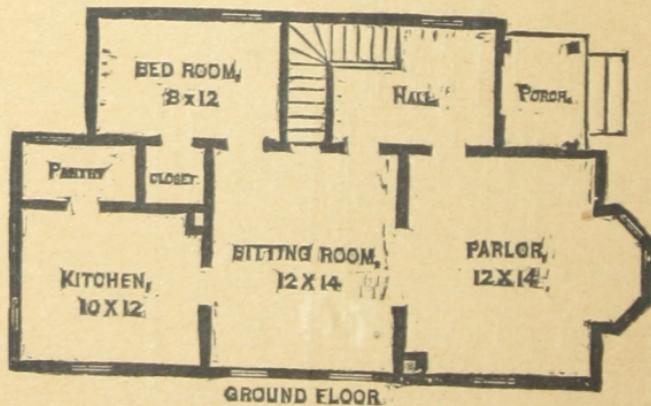


Convenient Eight Room Dwelling,

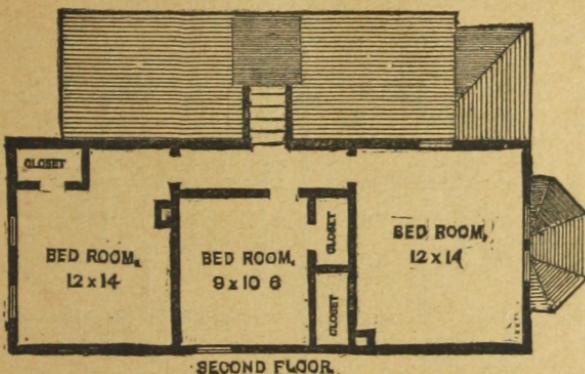
DESIGN No. 15.



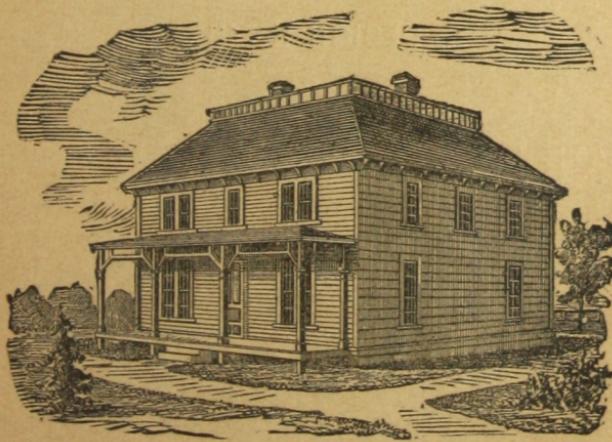
A Cheap Village or City House where ground is limited.



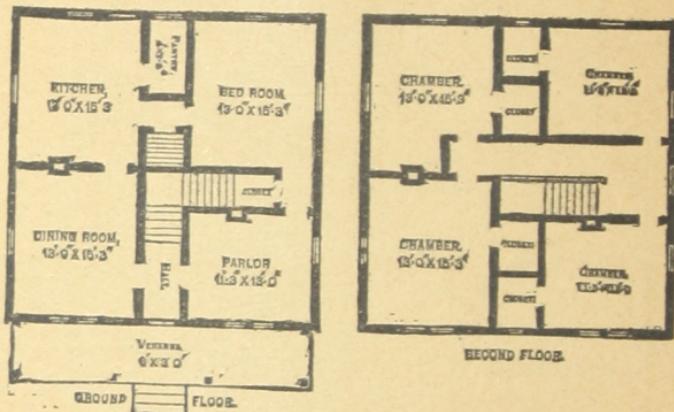
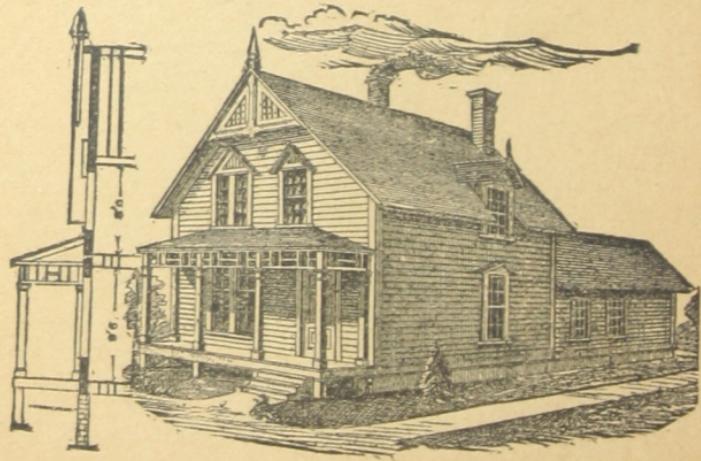
(For Plan of Second Story see opposite Page.)

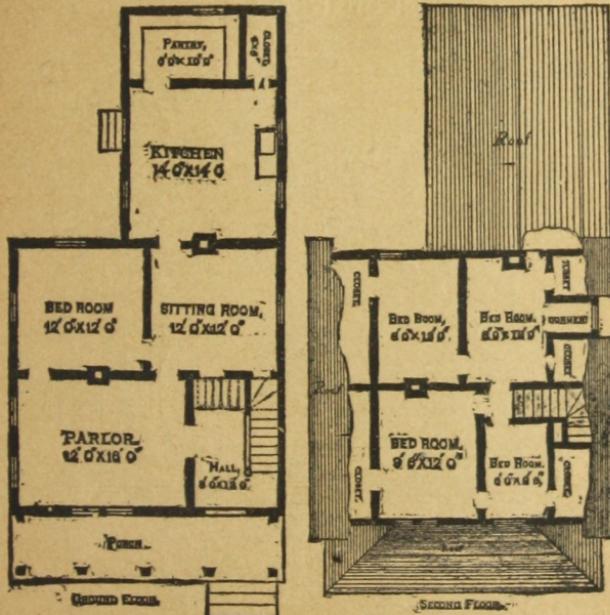


DESIGN No. 16.



A good Farm or Village House, with room well utilized.

*Plans of Design No. 16.***DESIGN No. 18**



Plans for Design No. 18.

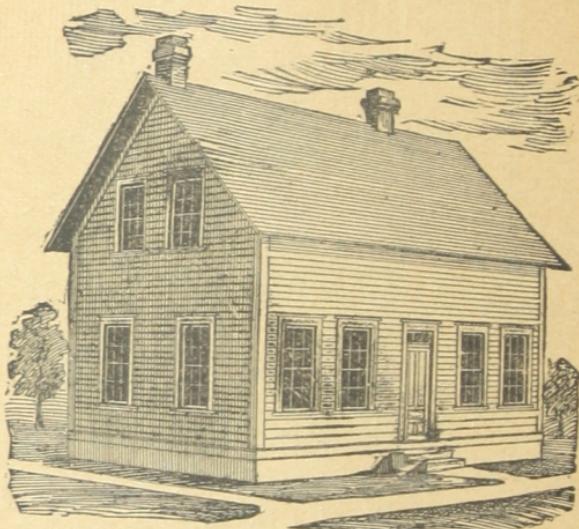
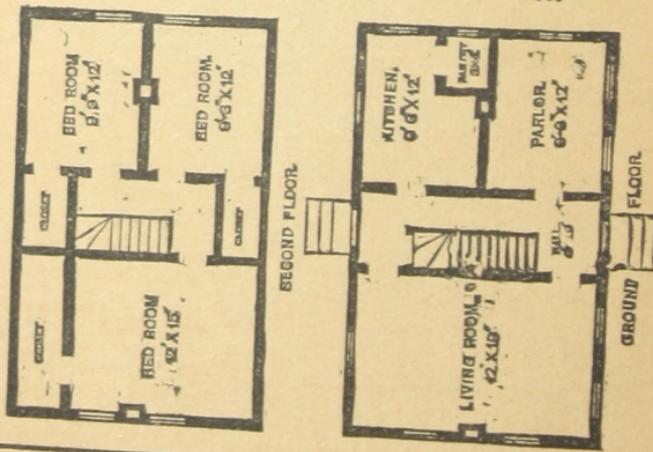
DIMENSIONS OF ONE ACRE.

A square, whose sides are 12,649 rods, or 69.57 rods, or 208.71 feet long, contains one acre. Table of dimensions of rectangle containing one acre:

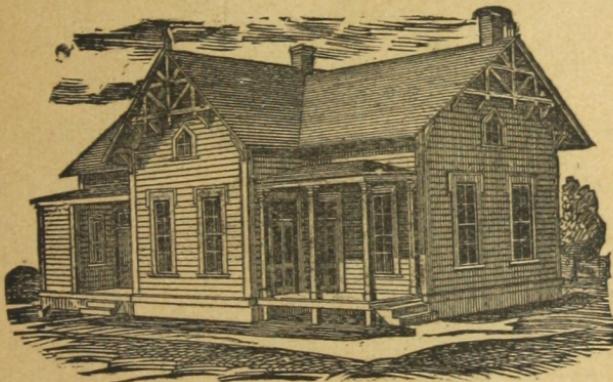
RODS.

1	\times	160	$\frac{1}{2}$	\times	106 $\frac{1}{2}$	2	\times	80	$\frac{3}{2}$	\times	64
3	\times	53 $\frac{1}{2}$	$\frac{3}{2}$	\times	45 5-7	4	\times	40	$\frac{1}{2}$	\times	35 5-9
5	\times	32	$\frac{5}{2}$	\times	29 1-11	6	\times	26 $\frac{1}{2}$	$\frac{3}{2}$	\times	24 8-13
7	\times	22 6-7	$\frac{7}{2}$	\times	21 $\frac{1}{2}$	8	\times	20	$\frac{5}{2}$	\times	18 14-17
9	\times	17 7-9	$\frac{9}{2}$	\times	16 16-19	10	\times	16	$\frac{1}{2}$	\times	15 5-21
11	\times	14 6-11	$\frac{11}{2}$	\times	13 21-33	12	\times	13 $\frac{1}{2}$	$\frac{3}{2}$	\times	12 4-5
									12 13-20	\times	12 13-20

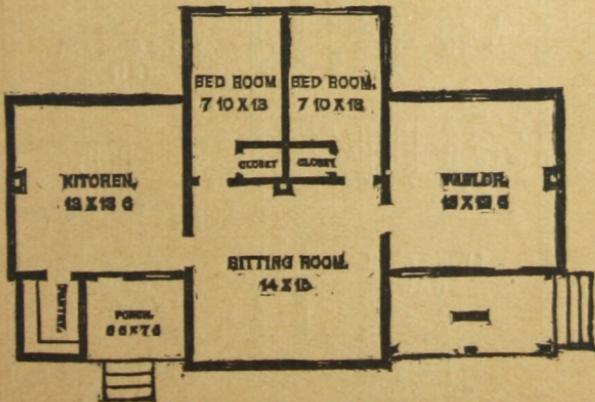
DESIGN No. 19.

*A very Cheap and convenient House.*

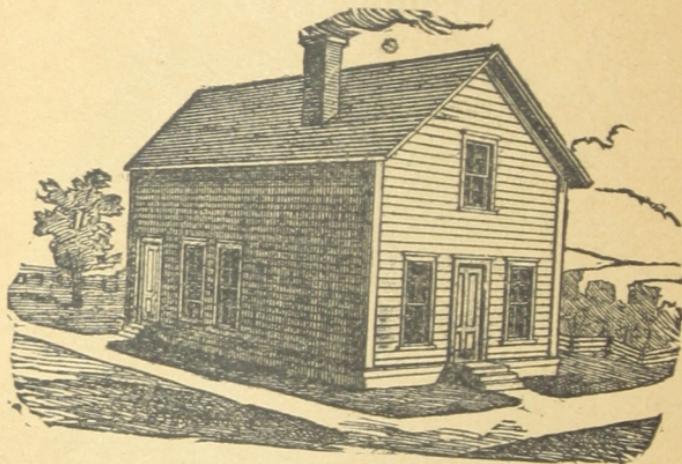
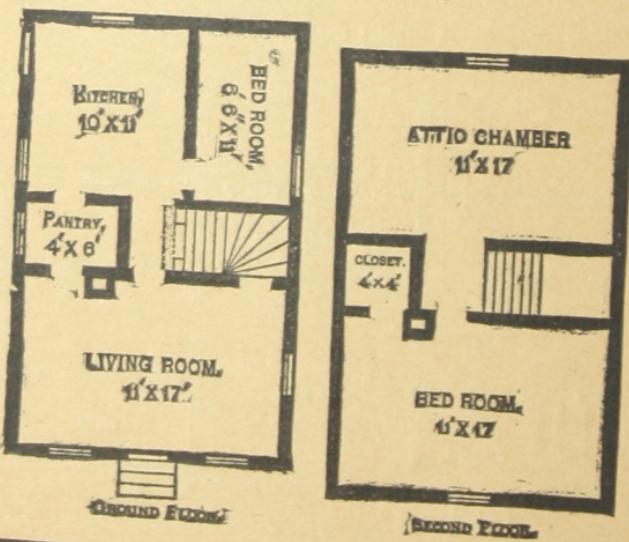
DESIGN No. 20.



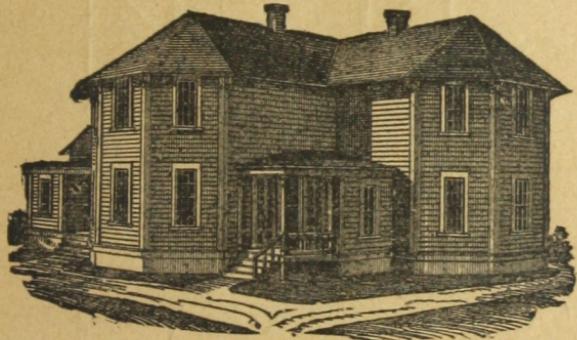
A Model One Story House.



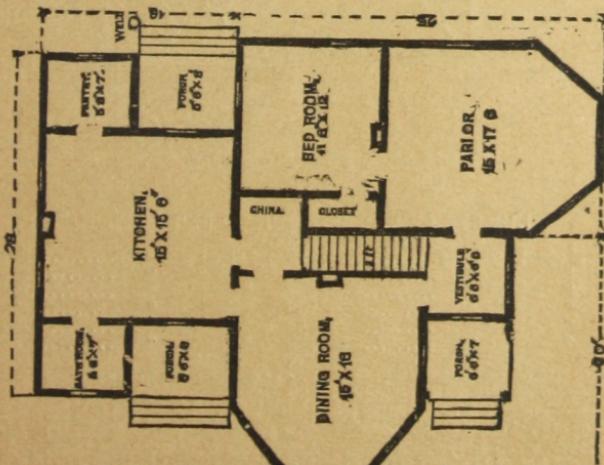
DESIGN No. 21.

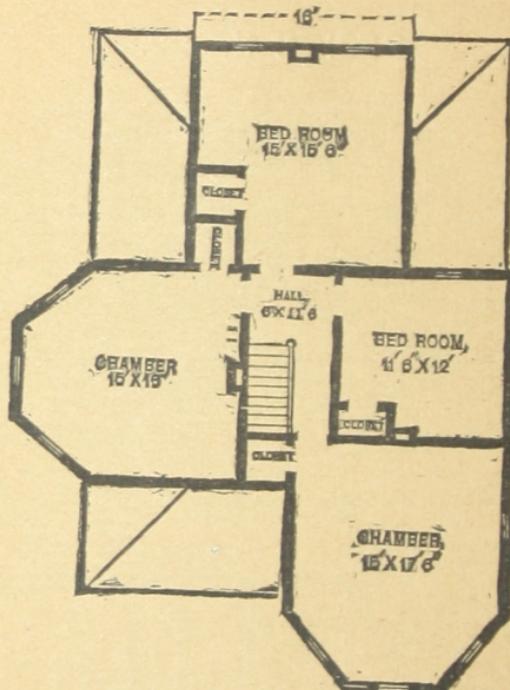
*A very Cheap Tenement.*

DESIGN No. 22.



A beautiful Village Residence.



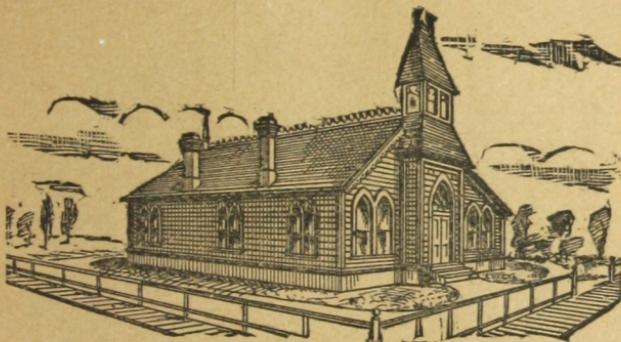
*Second Story Plan Design No. 22.*

NUMBER OF TREES REQUIRED PER ACRE.

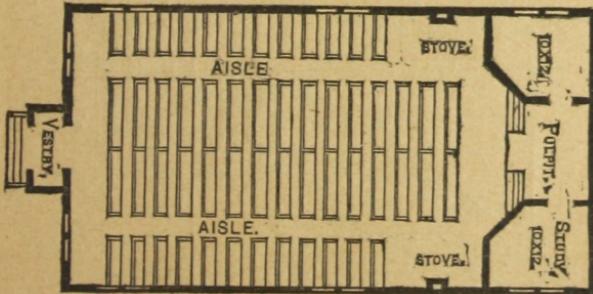
4 feet apart each way.....	2,720	15 feet apart each way.....	200
5 "	1,742	18 "	135
6 "	1,200	20 "	110
8 "	680	25 "	70
10 "	430	30 "	50
12 "	325	33 "	40

HAY MEASURE.—About 500 cubic feet of well-settled hay, or about 700 of new mown hay, will make a ton. To estimate amount of hay in mow—Ten cubic yards of meadow hay weigh a ton. When the hay is taken out of old stacks, 8 or 9 yards will make a ton. Eleven or 12 cubic yards of clover, when dry, make a ton. (*Note.*—The only accurate method to measure hay is to weigh it, since two quantities equal in bulk will never weigh alike. Any rule is simply an approximation.)

DESIGN No. 23.

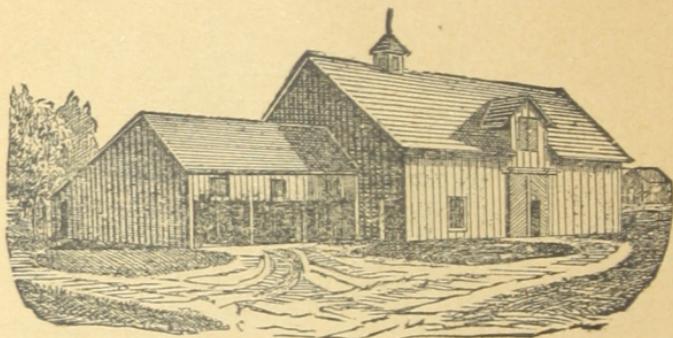
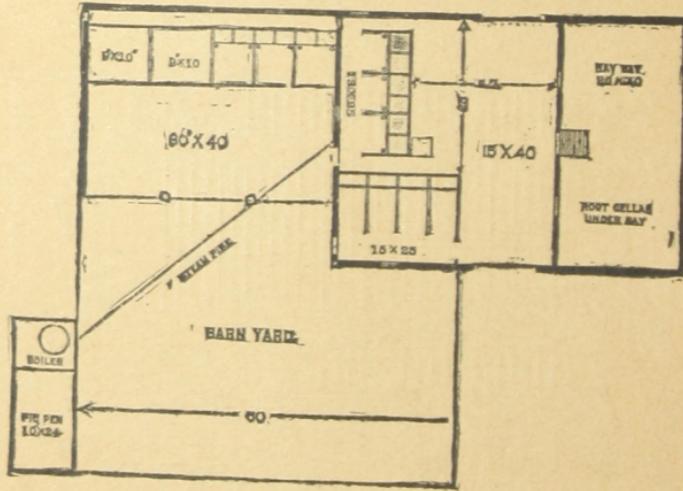


An attractive and Cheap Village or Country Church.



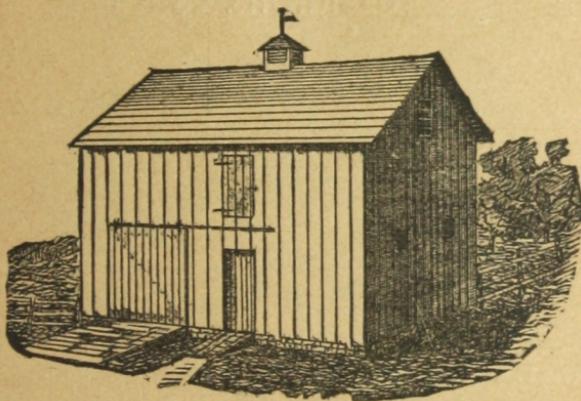
Building contracts, as all other business arrangements, should be written. A few moments' time spent in stating, clearly and concisely, what is expected of each party will often save delays and annoyances during the progress of the work and endless litigation after it. The mechanic's lien laws are a sufficient protection to the contractor or material-man, but their enforcement is much more simple and prompt if action can be based on a written contract.

DESIGN No. 24.

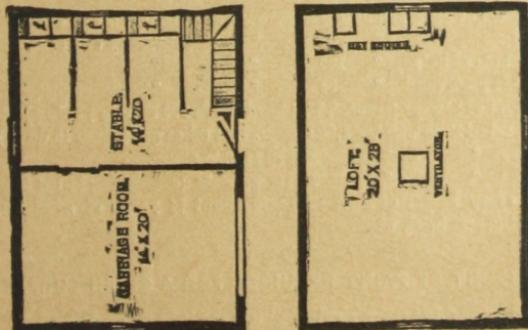
*A very commodious Barn.*

FLOOR, WALL AND ROOF MEASURE.—To find the number of square yards in a floor or wall: Rule—Multiply the length by the width or height (in feet), and divide the product by 9; the result will be square yards.

DESIGN No. 25.

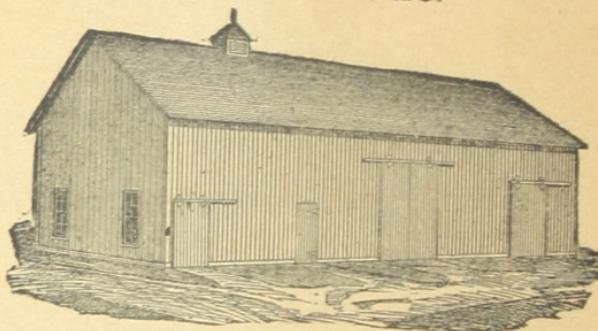


Cheap Horse Barn.



To find the contents of a corn crib: RULE—Multiply the number of cubic feet by $4\frac{1}{2}$ and point off one decimal place—the result will be the answer in bushels. How many bushels will a crib hold that is 48 feet long, $7\frac{1}{2}$ feet wide and $8\frac{1}{2}$ feet high?— $48 \times 7\frac{1}{2} \times 8\frac{1}{2} = 3,060$ cubic feet; $3,060 \times 4\frac{1}{2} = 12,240$; $12,240 + 1530 = 1377$. bushels, answer.

DESIGN No. 26.

*A Finely Arranged Combination Barn.*

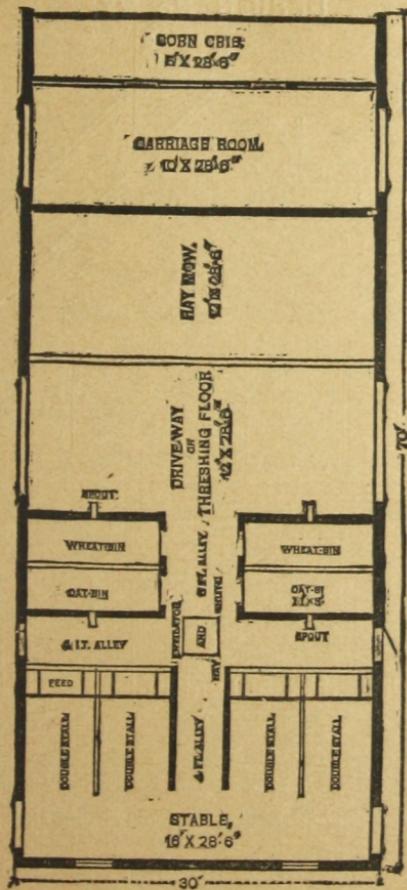
(For Plan see opposite Page.)

ESTIMATES OF MATERIALS.

$3\frac{1}{2}$	barrels of lime	will do	100	square yards	plastering,	two coats.
2	"	"	100	"	"	one coat.
$1\frac{1}{2}$	bushels of hair	"	100	"	"	"
$1\frac{1}{4}$	yards good sand	"	100	"	"	"
$\frac{1}{3}$	barrel of plaster (stucco),	will hard-finish	100	square yards	plastering.	
1	barrel of lime	will lay	1,000	brick.	(It takes good lime to do it.)	
2	"	"		1 cord	rubble stone.	
$\frac{1}{2}$	"	"		1 perch	"	(estimating $\frac{1}{4}$ c'd to perch.)
						To every barrel of lime estimate about $\frac{5}{6}$ yards of good sand for plastering and brick work.

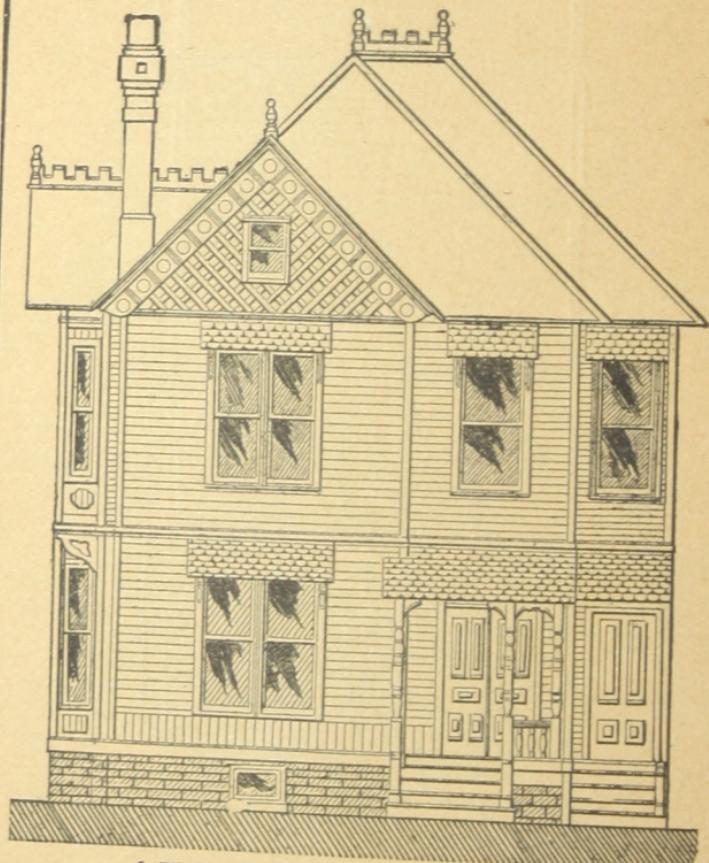
AMOUNT OF PAINT REQUIRED FOR A GIVEN SURFACE.

It is impossible to give a rule that will apply in all cases, as the amount varies with the kind and thickness of the paint, the kind of wood or other material to which it is applied, the age of the surface, etc. The following is an approximate rule: Divide the number of square feet of surface by 200. The result will be the number of gallons of liquid paint required to give two coats; or, divide by 18 and the result will be the number of pounds of pure ground white lead required to give three coats.



Plan of Barn—Design No. 26.

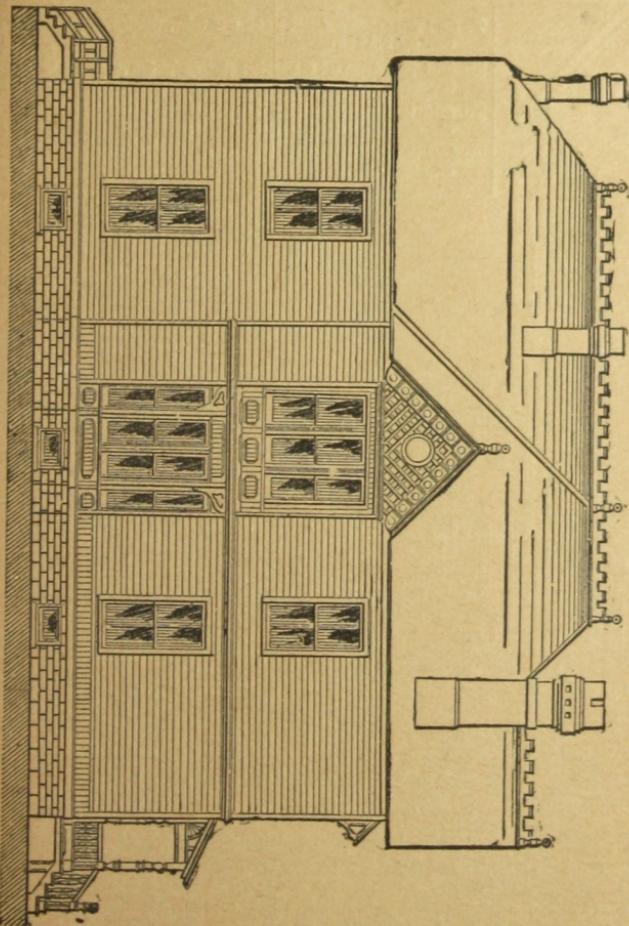
DESIGN No. 27.

*A Model Residence. (Front Elevation.)*

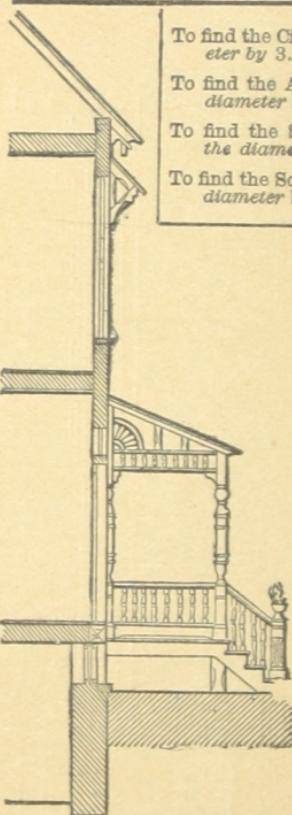
WOOD MEASURE.

To find the contents of Cord Wood; multiply the length, width and height together and divide the product by 128.
 How many Cords in a pile of Wood 4 ft. wide, 5 ft. high and 24 ft. long?

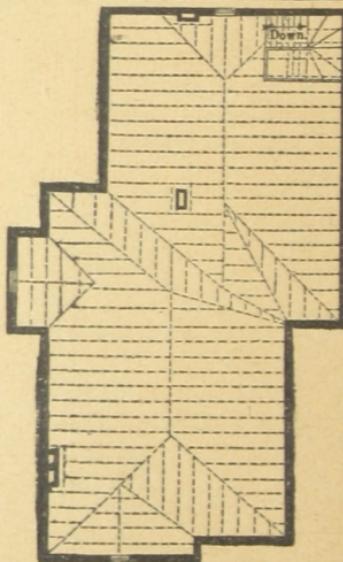
$$4 \times 5 \times 24 = 480 \text{ (cu. ft.)} \div 128 = 3\frac{3}{4} \text{ cords.}$$



No. 27.—*Model Residence.* (Side Elevation.)



SECTION.



ROOF AND ATTIC PLAN.

No. 27.—Model Residence.**BRICK**

are usually made 8 inches long, 4 inches wide, and 2 inches thick.

To the cubic foot, it takes 15 for an *eight* inch, $22\frac{1}{2}$ for a *twelve* inch, and 30 for a *sixteen* inch Wall. The mortar filling up about *one-sixth* of the space. Laid flat ways, it takes $4\frac{1}{2}$ to the sq. ft.

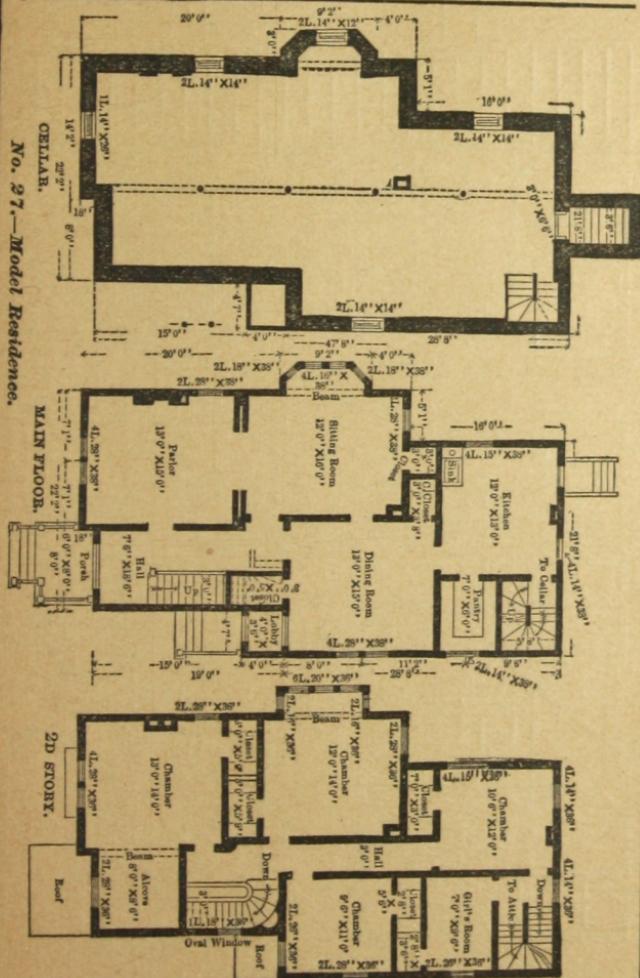
How many Brick will it take to build a house, whose walls are 156 ft. long, 20 ft. high and 16 inches ($1\frac{1}{3}$ ft.) thick; deducting 640 cu. ft. for doors and windows?

$$156 \times 20 \times 1\frac{1}{3} = 4160 \text{ cu. ft.}$$

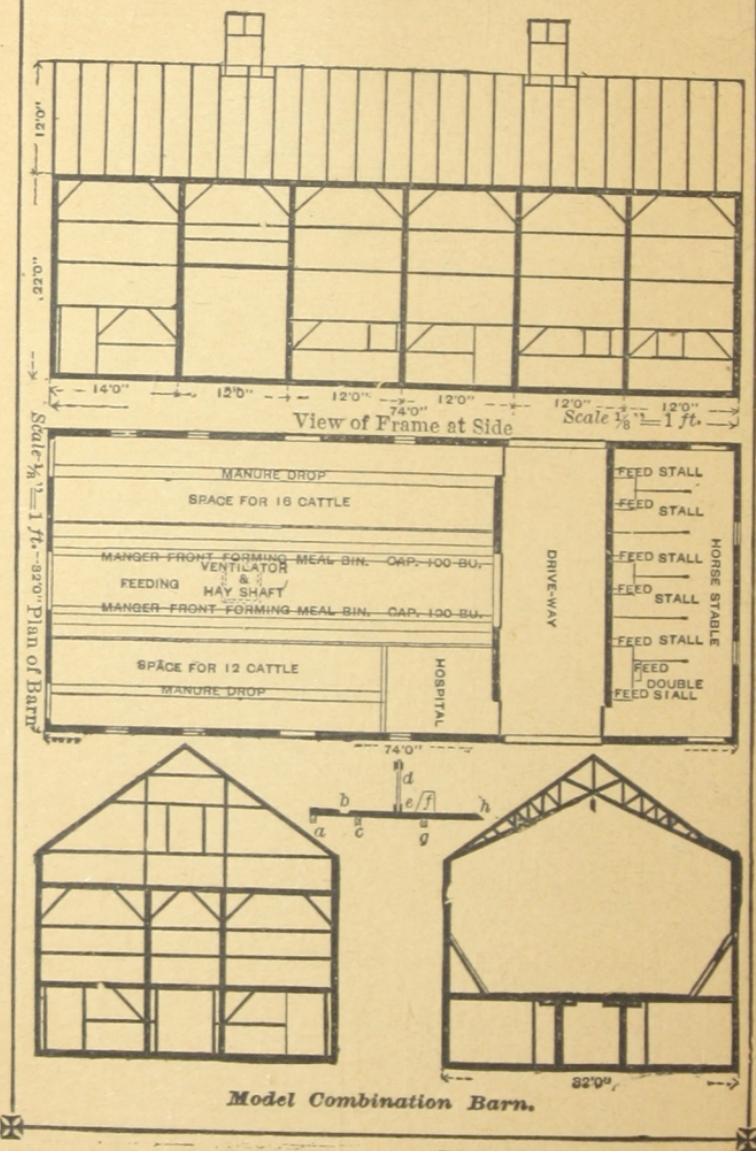
$$\text{Less } 640 = 3520$$

$$22\frac{1}{2}$$

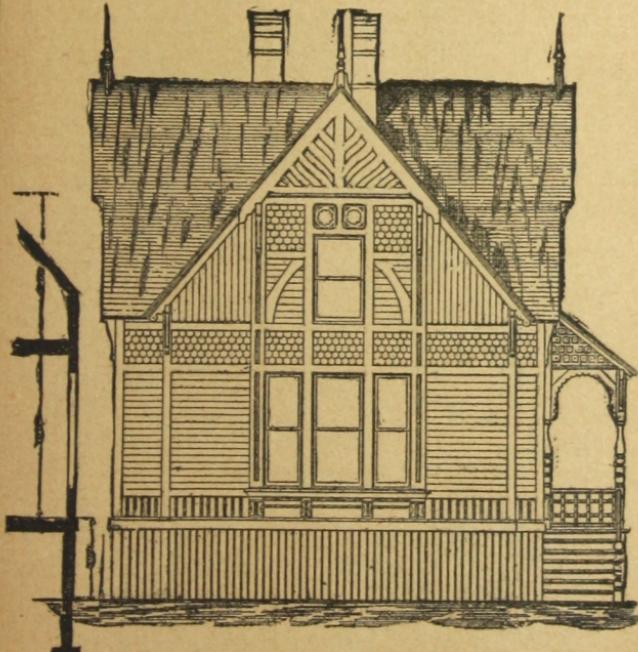
$$\text{Ans. } 79200 \text{ brick.}$$



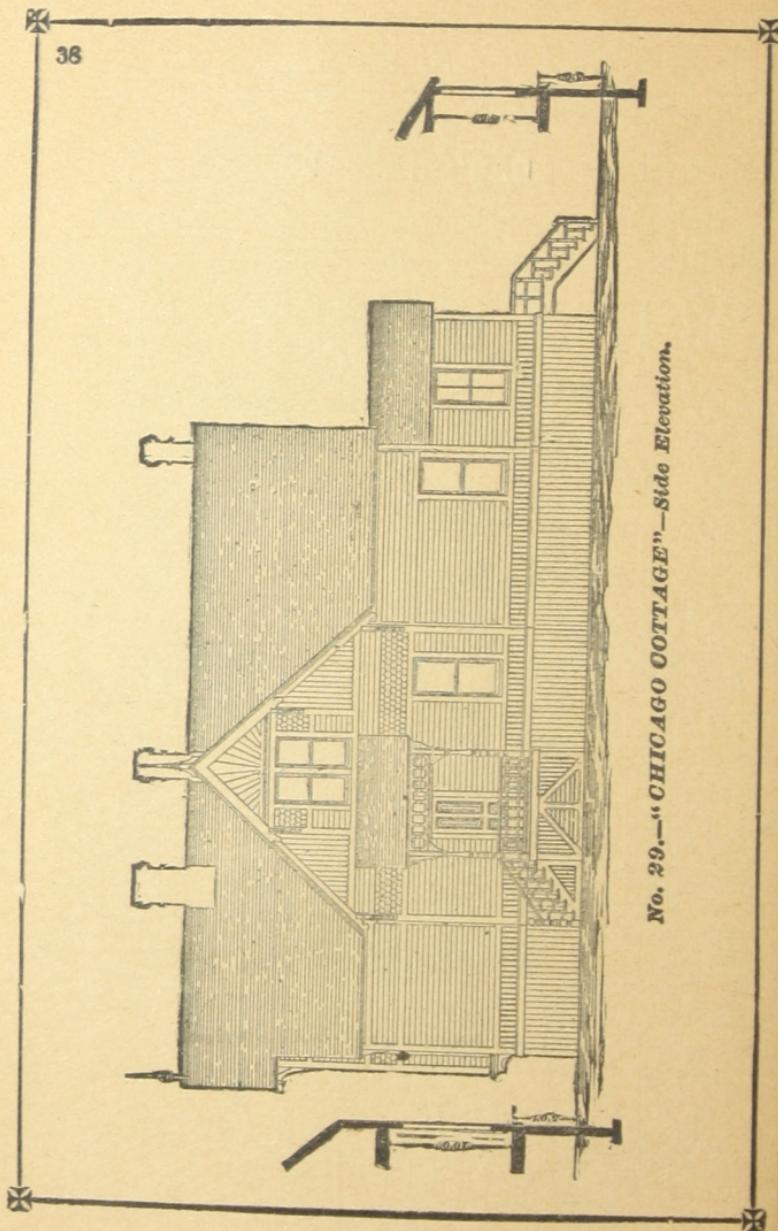
DESIGN No. 28.



DESIGN No. 29.

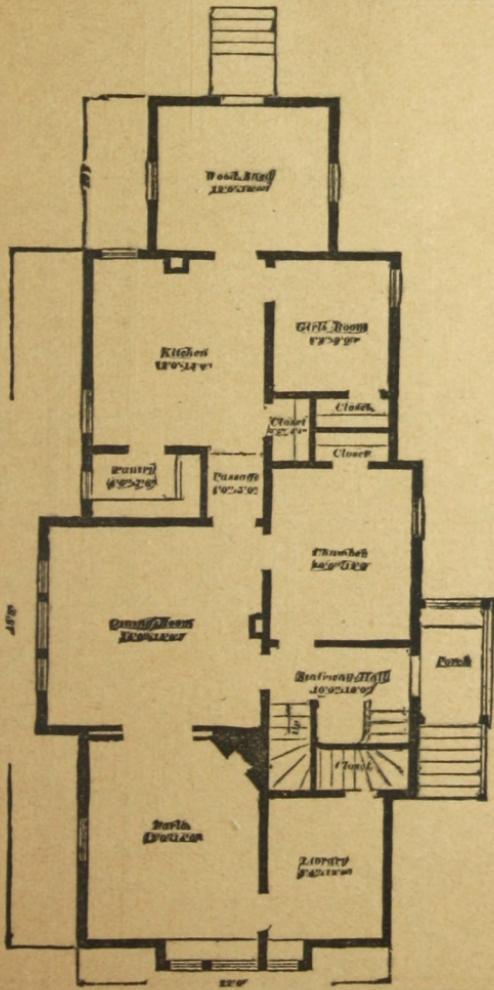


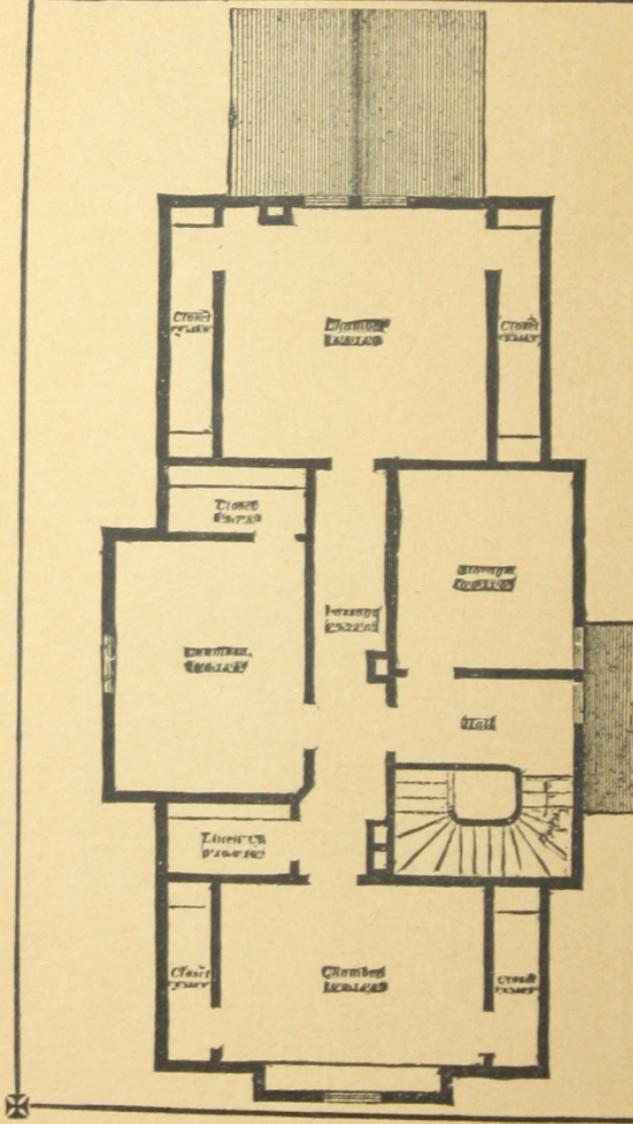
"CHICAGO COTTAGE"—Front Elevation.



No. 29.—“CHICAGO COTTAGE”—Side Elevation.

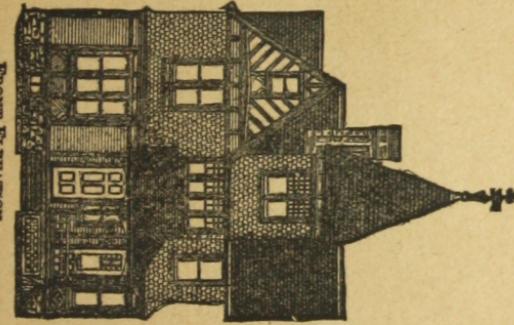
No. 29.—“CHICAGO COTTAGE”—Ground Floor Plan.





No. 29.—"CHICAGO" COTTAGE—Second Floor Plans.

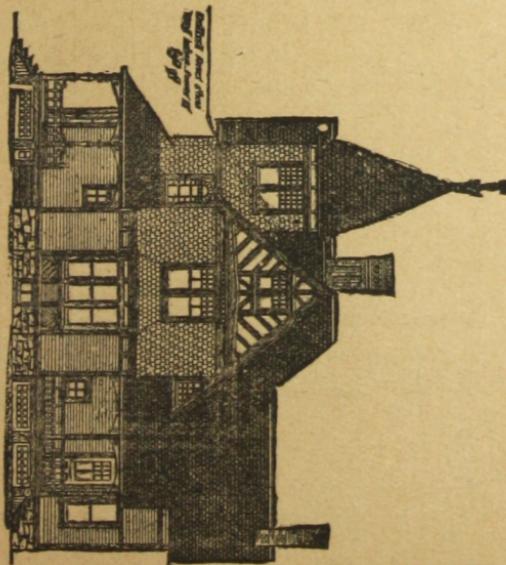
DESIGN No. 30.



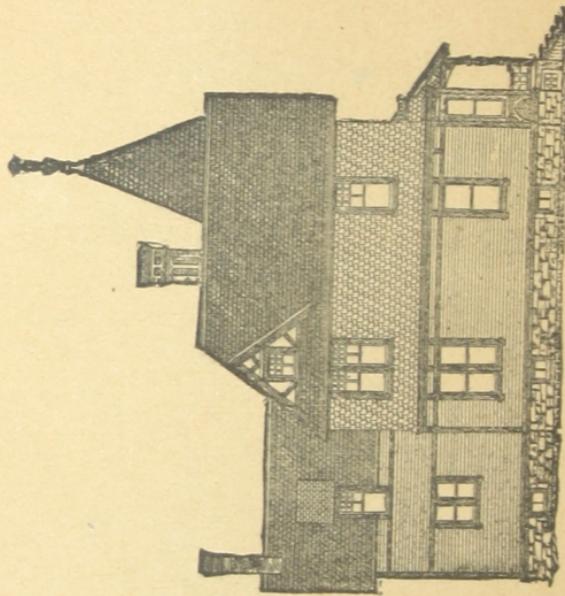
FRONT ELEVATION.

No. 30.—*Elevations of Modern Eight Room Cottage.*

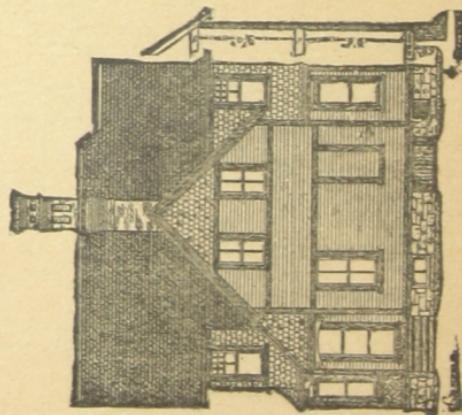
Plans of this Cottage furnished by Palliser, Palliser & Co., Architects, Bridgeport, Conn.



SIDE ELEVATION.



SIDE ELEVATION.

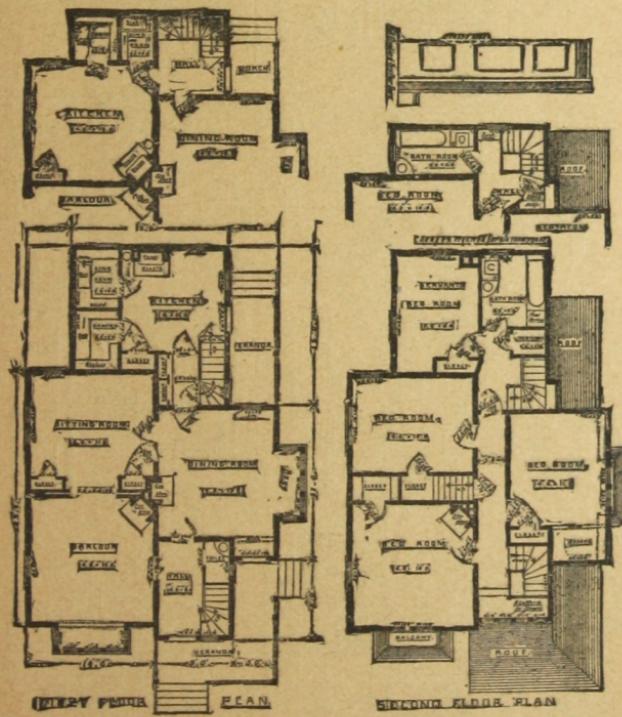


REAR ELEVATION.

No. 30.—*Elevation of Modern Eight Room Cottage.*

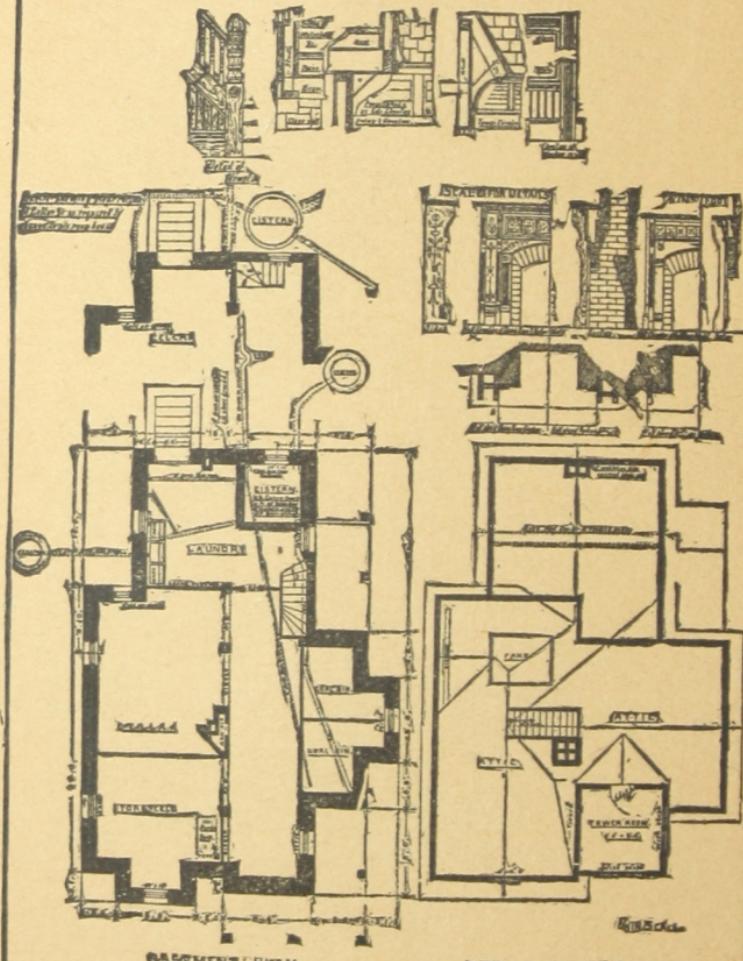
Plans of this Cottage furnished by Palliser, Palliser & Co., Architects, Bridgeport, Conn.

Plan showing changes required for
six-room house.



No. 30.—Floor Plans of Modern Eight Room Cottage.

Plans of this Cottage furnished by Palliser, Palliser & Co.,
Architects, Bridgeport, Conn.



No. 30.—*Floor Plans of Modern Eight Room Cottage.*

Plans of this Cottage furnished by Palliser, Palliser & Co.,
Architects, Bridgeport, Conn.

NOTICE.

We desire to have those who purchase this book, understand the reason why the prices for material are not given, as many books of a similar character advertise they contain prices, etc., and this one might suffer through comparison if the reason was not known.

Take for instance the price of lumber in Michigan compared with that of the price for the same quality in Colorado, a vast difference is the result, and any one can see that any figures based on Michigan or on Colorado figures would be of a misleading character, more especially as the prices fluctuate constantly.

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-11

SPECIFICATIONS.

In the following list of specifications will be found a full bill of the material required to erect any one of the buildings for which plans are given in this little book. These figures have all been made by a competent builder, and embrace all the details required to construct the buildings in a first-class manner, and without extravagance.

Design No. 1.

2 ps. 6x8 22; 3 ps. 6x8 14; 2 ps. 6x8 12; 16 ps. 2x8 14; 17 ps. 2x6 14;
1 ps. 2x6 18; 3 ps. 2x6 12; 52 ps. 2x4 16; 32 ps. 2x4 14; 53 ps. 2x4 12; 25
ps. 2x4 10; 900 ft. rough sheathing; 1,200 ft. sheathing d 1s; 1,400 ft. siding;
900 ft. flooring; 7,000 shingles; 800 ft. finishing; 150 ft. wainscoting;
60 ft. 1 $\frac{3}{4}$ ceiling; 4,700 laths; 3 doors, 2 8x6 8, 1 $\frac{3}{4}$, No. 1; 8 doors, 2 8x
6 6, 1 $\frac{3}{4}$ No. 1; 7 windows 12x28 4 ft.; 2 windows 12x24 4 ft.; 4 ps. 2x8
18, d and b; 220 ft. O G base; 500 ft. O G casing; 130 lbs. pl. paper; 120
lbs. tar paper; 2 cellar windows, 8x10 3 ft.; 2 ps. 4x4 16; 150 ft. 3 $\frac{1}{2}$ in.
O G crown moulding; 150 ft. 1 $\frac{1}{4}$ x1 $\frac{1}{4}$ in. Scotia; 48 ft. large drip; 48 ft. 1 $\frac{1}{4}$
x2 $\frac{1}{2}$ in. nosing; 130 ft. blind stop; 130 ft. parting strip; 130 ft. 1 $\frac{3}{4}$ O G
stop; 170 ft. 1 $\frac{3}{4}$ O G stop; 48 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. cap; 58 ft. 2 $\frac{1}{2}$ x1 in. Scotia;
48 ft. 3 $\frac{1}{4}$ in. quarter-round; 1 cord stone, 12-in. wall; 800 brick; 15 gal. paint;
9 bbls. lime; 1 bbl. stucco; 3 bu. hair; 1 bbl. cement; nails, 50 lbs. 20d, 100
lbs. 10d, 50 lbs. 8d, 20 lbs. 6d, 25 lbs. 3d com., 30 lbs. 3d fine, 25 lbs. 10d
casing; 11 mortise locks; 11 pair butts; 2 $\frac{1}{4}$ doz. window springs; 2 doz.
wardrobe hooks; 5 6-in. thimbles. Main part 14x22, 12 ft.; ell, 12x14, 8 ft.;
with porch.

Design No. 2.

2 ps. 6x8 22; 2 ps. 6x8 18; 3 ps. 6x8 14; 4 ps. 2x8 18; 60 ps. 2x8 14
2 ps. 4x4 16; 83 ps. 2x4 10; 37 ps. 2x4 12; 40 ps. 2x4 14; 43 ps. 2x4 16;
39 ps. 2x4 18; 1,500 ft. sheathing, d 1s; 940 ft. rough sheathing; 1,200 ft. wain-
siding; 1,600 ft. flooring; 8,000 shingles; 1,000 ft. finishing; 120 ft. wain-
scoting; 120 ft. 3 $\frac{1}{4}$ ceiling; 8,000 laths; 4 doors, 2 8x6 8, 1 $\frac{3}{4}$, No. 1; 13 doors,
2 6x6 6, 1 $\frac{3}{4}$ No. 1; 6 windows 12x24 4 ft.; 9 windows 12x28 4 ft.; 5 ps.
2x8 18 d and b; 400 ft. O G base; 750 ft. O G casing; 165 lbs. pl. paper;
125 lbs. tar paper; 2 cellar sash, 8x10 3 ft.; 170 ft. 4 $\frac{1}{2}$ in. O G crown mould-
ing; 170 ft. 2 $\frac{1}{2}$ in. O G crown moulding; 80 ft. large drip; 80 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in.
nosing; 220 ft. parting strip; 220 ft. 1 $\frac{3}{4}$ O G stop; 220 ft. blind stop; 300
ft. 1 $\frac{1}{4}$ O G stop; 40 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. cap; 40 ft. 3 $\frac{1}{4}$ x1 in. Scotia; 40 ft. 3 $\frac{1}{4}$ in.
quarter-round; 1 cord stone, 12 in. high; 1,300 brick; 25 gal. paint; 16
bbls. lime; 1 bbl. stucco; 4 bu. hair; 1 bbl. cement; nails, 60 lbs. 20d, 140
lbs. 10d, 35 lbs. 3d, 25 lbs. 6d, 50 lbs. 8d com., 60 lbs. 3d fine, 25 lbs. 10d
casing; 17 mortise locks; 17 pr. butts and screws; 3 $\frac{1}{4}$ doz. window springs;
3 doz. wardrobe hooks; 4 6-in. thimbles. Main part 14x22, 14 ft. high; ell
part 14x18 12 ft. high, with porch.

Design No. 3.

2 ps. 6x8 26; 5 ps. 6x8 16; 54 ps. 2x8 16; 13 ps. 2x6 16; 2 ps. 4x4 18; 17 ps. 2x4 20; 47 ps. 2x4 18; 62 ps. 2x4 16; 28 ps. 2x4 14; 83 ps. 2x4 12; 1,800 ft. sheathing, d 1 s; 1,200 ft. sheathing; 2,100 ft. siding; 1,600 ft. flooring; 10,000 shingles; 1,260 ft. finishing; 160 ft. wainscoting; 120 ft. $\frac{3}{8}$ ceiling; 7,600 lath; 3 doors 2 8x6 8, $1\frac{3}{8}$ No. 1; 10 doors 2 6x6 6, $1\frac{3}{8}$ No. 1; 8 windows 12x28, 4 lt.; $4\frac{1}{2}$ windows 12x24 4 lt.; 4 ps. 2x8 18 d and b; 380 ft. O G base; 600 ft. O G casing; 200 lbs. pl. paper; 165 lbs. tar paper; 2 cellar sash, 8x10 3 lt.; 200 ft. $4\frac{1}{2}$ in. O G crown moulding; 190 ft. $2\frac{1}{2}$ in. O G crown moulding; 48 ft. large drip; 48 ft. $1\frac{1}{4}$ x $2\frac{1}{2}$ in. nosing; 48 ft. $1\frac{1}{4}$ x $2\frac{1}{2}$ in. cap; 48 ft. $3\frac{1}{4}$ x1 in. Scotia; 48 ft. $3\frac{1}{4}$ in. quarter-round; 200 ft. blind stop; 180 ft. parting strip; 180 ft. $1\frac{3}{8}$ O G stop; 230 ft. $1\frac{3}{4}$ O G stop; $1\frac{1}{2}$ cords stone 15 in. high; 900 brick; 23 gal. paint; 15 bbls. lime; 1 bbl. stucco; 4 bus. hair; 1 bbl. cement; nails, 100 lbs. 20d, 200 lbs. 10d, 60 lbs. 8d, 30 lbs. 6d, 30 lbs. 10d casing, 40 lbs. 3d com., 60 lbs. 3d fine; 13 mortise locks; 13 pr. butts; 3 doz. window spring bolts; 3 doz. wardrobe hooks; 5 thimbles 6-in. Main part 16x26, 16 ft. high; ell part 16x16, 9 ft. high, porch on the front of kitchen.

Design No. 5.

2 ps. 6x8 26; 2 ps. 6x8 22; 2 ps. 6x8 20; 1 ps. 6x8 16; 22 ps. 2x8 20; 11 ps. 2x8 16; 17 ps. 2x6 16; 2 ps. 4x4 18; 15 ps. 2x4 20; 88 ps. 2x4 18; 94 ps. 2x4 16; 45 ps. 2x4 14; 34 ps. 2x4 12; 10 ps. 2x4 10; 2,150 ft. sheathing, d 1 s; 1,600 ft. rough sheathing; 2,500 ft. siding; 1,830 ft. flooring; 13,000 shingles; 1,250 ft. finishing; 180 ft. wainscoting; 150 ft. $\frac{3}{8}$ ceiling; 10,000 lath; 1 door 2 10x6 10, glazed and transom; 2 doors 2 8x6 8, $1\frac{3}{8}$ No. 1; 18 doors 2 6x6 6, $1\frac{3}{8}$ No. 1; 8 windows, 12x28 4 lt.; 5 windows, 12x24, 4 lt.; 4 ps. 2x8 18 d and b; 540 ft. O G base; 900 ft. O G casing; 240 lbs. pl. paper; 220 lbs. tar paper; 2 cellar sash, 8x10 3 lt.; 200 ft. $4\frac{1}{2}$ in. O G crown moulding; 200 ft. $2\frac{1}{2}$ in. O G crown moulding; 44 ft. $1\frac{1}{4}$ x $2\frac{1}{2}$ in. cap; 44 ft. $3\frac{1}{4}$ x1 in. Scotia; 44 ft. $2\frac{1}{2}$ in. quarter-round; 64 ft. large drip; 64 ft. $1\frac{1}{4}$ x $2\frac{1}{2}$ in. nosing; 180 ft. $1\frac{3}{8}$ O G stop; 180 ft. parting strip; 200 ft. blind stop; 380 ft. $1\frac{3}{4}$ O G stop; newel stain rail and balusters; $1\frac{1}{2}$ cords stone, 12 in. high; 900 brick; 27 gals. paint; 21 bbls. lime; 2 bbls. stucco; 5 bu. hair; 2 bbls. cement; nails, 100 lbs. 20d, 200 lbs. 10d, 60 lbs. 8d, 40 lbs. 6d, 50 lbs. 3d com., 40 lbs. 10d casing, 75 lbs. 3d fine; 19 mortise locks; 21 pairs hinges; 3 $\frac{1}{4}$ doz. window springs; 4 doz. wardrobe hooks; 5 thimbles, 6-in. Main part 20x26 16 ft. high; ell, 16x22 9 ft. high, with porch.

Design No. 6.

3 ps. 6x8 20; 4 ps. 6x8 16; 2 ps. 6x8 18; 50 ps. 2x8 18; 24 ps. 2x8 20; 5 ps. 2x8 16; 4 ps. 4x4 18; 10 ps. 2x8 14; 4 ps. 4x6 20; 27 ps. 2x4 18; 136 ps. 2x4 16; 20 ps. 2x4 14; 71 ps. 2x4 12; 82 ps. 2x4 10; 1,750 ft. sheathing, d 1 s; 1,800 ft. rough sheathing; 2,000 ft. siding; 2,500 ft. flooring; 15,000 shingles; 1,300 ft. finishing; 180 ft. $7\frac{1}{8}$ wainscoting; 320 ft. $\frac{3}{8}$ ceiling; 9,000 lath; 1 glazed door and transom; 2 doors, 2 8x6 8, $1\frac{3}{8}$; 10 doors, 2 6x6 6, $1\frac{3}{8}$; 5 doors, 2 0x5 0, in. batten; 11 win. 12x28, 4 lt.; 6 win. 12x24, 4 lt.; 5 ps. 2x8 18 d and b; 450 ft. O G base; 720 ft. O G casing; 200 lbs. pl. paper; 250 lbs. tar paper; 2 cel. sash, 8x10, 3 lt.; 200 ft. $4\frac{1}{2}$ in. O G crown moulding; 200 ft. $2\frac{1}{2}$ in. O G crown moulding; 80 ft. large drip; 80 ft. $1\frac{1}{4}$ x $2\frac{1}{2}$ in. nosing; 250 ft. blind stop; 240 ft. parting strip; 240 ft. $1\frac{3}{8}$ O G stop; 288 ft. $1\frac{1}{4}$ O G stop; 50 ft. $1\frac{1}{4}$ x $2\frac{1}{2}$ in. cap; 50 ft. $3\frac{1}{4}$ x1 in. Scotia; 50 ft. $3\frac{1}{4}$ in. quarter-round; $1\frac{1}{4}$ cords stone, 12 in.; 1,300 brick; 25 gal. paint; 16 bbls. lime; 1 bbl. stucco; 5 bu. hair; 1 bbl. cement; nails, 100 lbs. 20d, 200 lbs. 10d, 60 lbs. 8d, 40 lbs. 6d, 50 lbs. 3d com., 30 lbs. 10d casing, 70 lbs. 3d fine; 13 mortise locks; 13 pair $3\frac{1}{4}$ x $3\frac{1}{2}$ butts; 5 rim latches; 5 rim 2x2 butts; 4 $\frac{1}{4}$ doz. win. spring bolts; 3 doz. wardrobe hooks; 4 thimbles. Main part 17-6x34; ell part 16x15-6, 10 ft. high, $1\frac{1}{2}$ pitch roof, with porch, 4 ft., 4 gables and front verandah.

Design No. 7.

2 ps. 6x8 28; 2 ps. 6x8 18; 42 ps. 2x8 18; 8 ps. 2x4 18; 42 ps. 2x4 16; 16 ps. 2x4 14; 96 ps. 2x4 12; 22 ps. 2x4 10; 1,280 ft. sheathing, d 1 s; 750 ft. rough sheathing; 1,500 ft. siding; 1,370 ft. flooring; 6,000 shingles; 680 ft. finishing; 140 ft. $\frac{7}{8}$ wainscoting; 5,700 lath; 2 doors 2 8x6 8, 1 $\frac{3}{4}$ No. 1; 11 doors 2 6x6 6, 1 $\frac{3}{4}$, No. 1; 6 win. 12x28, 4 lt.; 4 win. 12x24, 4 lt.; 3 ps. 2x8 18 d and b; 280 ft. O G base; 500 ft. O G casing; 140 ft. pl. paper; 100 lbs. tar paper; 2 cel. sash 8x10, 3 lt.; 120 ft. 2 $\frac{1}{2}$ in. O G crown moulding; 110 ft. 1 $\frac{1}{4}$ x1 $\frac{1}{4}$ in. Scotia; 52 ft. large drip; 52 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. nosing; 150 ft. blind stop; 150 ft. parting strip; 150 ft. 1 $\frac{3}{4}$ O G stop; 220 ft. 1 $\frac{3}{4}$ O G stop; 36 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. cap; 36 ft. 3x1 in. Scotia; 36 ft. $\frac{3}{4}$ in. quarter-round; 1 cord stone; 450 brick; 15 gal. paint; 11 bbls. lime; 1 bbl. stucco; 1 bbl. cement; 3 bu. hair; nails, 50 lbs. 20d, 100 lbs. 10d, 30 lbs. 8d, 25 lbs. 6d, 20 lbs. 3d com., 20 lbs. 10d casing, 40 lbs. 3d fine; 13 mortise locks; 13 pair butts; 2 $\frac{3}{4}$ doz. win. bolts; 2 doz. wardrobe hooks; 3 thimbles. Estimated for 18x28 12 ft. high, with stormhouse over door.

Design No. 8.

2 ps. 6x8 28; 2 ps. 6x8 20; 3 ps. 6x8 14; 42 ps. 2x8 20; 28 ps. 2x8 14; 3 ps. 4x4 18; 43 ps. 2x4 20; 32 ps. 2x4 18; 117 ps. 2x4 16; 66 ps. 2x4 14; 11 ps. 2x4 12; 2,500 ft. sheathing, d 1 s; 1,200 ft. rough sheathing, 8,000 ft. siding; 2,240 ft. flooring; 9,500 shingles; 1,300 ft. finishing; 180 ft. $\frac{7}{8}$ wainscoting; 200 ft. 3x8 ceiling; 9,000 lath; 1 door glazed and transom; 2 doors 2 8x6 8, 1 $\frac{3}{4}$ No. 1; 13 doors 2 6x6 6 1 $\frac{3}{4}$ No. 1; 7 win. 12x28 4 lt.; 2 win. 12x28 2 lt.; 11 win. 12x24 4 lt.; 6 ps. 2x8 18, d and b; 400 ft. O G base; 800 ft. O G casing; 260 lbs. pl. paper; 160 lbs. tar paper; 2 cel. sash 8x10 3 lt.; 200 ft. 1 $\frac{3}{4}$ O G crown moulding; 200 ft. 2 $\frac{1}{2}$ in. O G crown moulding; 290 ft. 1 $\frac{3}{4}$ O G stop; 280 ft. parting strips; 280 ft. blind stops; 90 ft. large drip; 90 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. nosing; 48 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. cap; 48 ft. 3x1 in. Scotia; 48 ft. $\frac{3}{4}$ in. quarter-round; 2 cords stone 18 in. high; 1,000 bricks; 28 gals. paint; 17 bbls. lime; 1 bbl. stucco; 4 bu. hair; 1 bbl. cement; nails, 100 lbs. 20d, 200 lbs. 10d, 60 lbs. 8d, 50 lbs. 6d, 40 lbs. 3d com., 70 lbs. 3d fine, 40 lbs. 10d casing; 16 mortise locks; 16 pr. butts and screws; 2 $\frac{1}{2}$ doz. window spring bolts; 3 doz. wardrobe hooks; 5 fine thimbles; stair rail and balusters. Main part 20x28 ft.; ell part 14x14, 16 ft. high with two porches and bay window.

Design No. 10.

3 ps. 6x6 32; 2 ps. 6x8 30; 1 ps. 6x8 20; 48 ps. 2x8 16; 24 ps. 2x8 14; 6 ps. 2x8 10; 16 ps. 2x4 20; 42 ps. 2x4 18; 126 ps. 2x4 16; 54 ps. 2x4 14; 60 ps. 2x4 12; 2,000 ft. sheathing, d 1 s; 1,600 ft. rough sheathing; 2,400 ft. siding; 1,800 ft. flooring; 12,000 shingles; 1,000 ft. finishing; 180 ft. wainscoting; 9,000 lath; 1 pair doors, 4 0x7 0, 1 $\frac{3}{4}$, and transom; 2 doors 2 8x6 8, 1 $\frac{3}{4}$, No. 1; 14 doors 2 6x6 6, 1 $\frac{3}{4}$, No. 1; 9 win. 12x28 4 lt.; 6 win. 12x24 4 lt.; 5 ps. 2x8 18 d and b; 450 ft. O G base; 760 ft. O G casing; 220 lbs. pl. paper; 210 lbs. tar paper; 2 cel. sash 8x10, 3 lt.; 170 ft. 3 $\frac{1}{2}$ in. O G crown moulding; 170 ft. 1 $\frac{1}{4}$ x1 $\frac{1}{4}$ in. Scotia; 72 ft. large drip; 72 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. nosing; 200 ft. blind stop; 200 ft. parting strip; 200 ft. 1 $\frac{3}{4}$ O G stops; 300 ft. 1 $\frac{3}{4}$ O G stops; 50 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. cap; 50 ft. 3x1 in. Scotia; 50 ft. $\frac{3}{4}$ in. quarter-round; 1 $\frac{1}{4}$ cords stone, 12 in. high; 1,000 brick; 21 gal. paint; 17 bbls. lime; 1 bbl. stucco; 4 bu. hair; 1 bbl. cement; nails, 60 lbs. 20d, 205 lbs. 10d, 60 lbs. 8d, 40 lbs. 6d, 50 lbs. 3d com., 70 lbs. 3d fine, 25 lbs. 10d casing; 16 mortise locks; 18 pair butts and screws; 3 $\frac{3}{4}$ doz. win. bolts; 3 doz. wardrobe hooks; 4 fine thimbles. Main part, 16x32, 16 ft. high. Lean-to on side, 14x32, 8 ft. on side. Vestibule in front with gable.

Design No. 11.

2 ps. 6x8 26; 4 ps. 6x8 16; 2 ps. 6x8 14; 4 ps. 6x8 12; 60 ps. 2x8 16; 9 ps. 2x8 14; 20 ps. 2x6 14; 24 ps. 2x4 20; 56 ps. 2x4 18; 90 ps. 2x4 16; 36 ps. 2x4 14; 100 ps. 2x4 12; 20 ps. 2x4 10; 2,100 ft. sheathing, d 1 s; 1,600 ft. rough sheathing; 2,400 ft. siding; 1,750 ft. flooring; 15,000 shingles; 1,400 ft. finishing; 160 ft. $\frac{7}{8}$ wainscoting; 140 ft. $\frac{3}{8}$ ceiling; 10,000 lath; 3 doors 2 8x6 8, 1 $\frac{3}{8}$ s, No. 1; 15 doors 2 6x6, 1 $\frac{3}{8}$ s, No. 1; 12 win. 12x28, 4 lt.; 7 win. 12x21, 4 lt.; 6 ps. 2x8 18 d and b; 500 ft. O. G. base; 860 ft. O. G. casing; 230 lbs. pl. paper; 220 lbs. tar paper; 2 cel. sash 8x10 3 lt.; 250 ft. 4 $\frac{1}{2}$ in. O. G. crown moulding; 250 ft. 2 $\frac{1}{2}$ in. O. G. crown moulding; 90 ft. large drip; 90 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. nosing; 260 ft. blind stop; 260 ft. parting strip; 260 ft. 1 $\frac{3}{8}$ s O. G. stops; 320 ft. 1 $\frac{3}{4}$ O. G. stops; 48 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. cap; 48 ft. $\frac{3}{4}$ x1 in. Scotia; 48 ft. $\frac{3}{4}$ in. quarter-round; 2 cords stone 15 in. high; 1,500 brick; 28 gal. paint; 18 bbls. lime; 2 bbls. stucco; 5 bu. hair; 1 bbl. cement; nails, 100 lbs. 20d, 200 lbs. 10d, 100 lbs. 8d, 40 lbs. 6d, 60 lbs. 3d com., 70 lbs. 3d fine, 50 lbs. 10d casing; 18 mortise locks; 18 pair butts and screws; 5 doz. win. springs; 4 doz. wardrobe hooks; 7 thimbles for flues. Main house 16x26, 16 ft. high; ell for parlor 12x16, 16 ft. high; ell for kitchen 12x14, 9 ft. high. Two bay windows; two porches with hall.

Design No. 12.

2 ps. 6x8 30; 1 p. 6x8 24; 2 ps. 6x8 20; 6 ps. 6x8 16; 90 ps. 2x8 14; 44 ps. 2x8 16; 45 ps. 2x6 14; 1 p. 4x4 18; 200 ps. 2x4 18; 116 ps. 2x4 16; 54 ps. 2x4 12; 3,150 ft. sheathing, d 1 s; 2,100 feet rough sheathing; 3,600 ft. siding; 3,360 ft. flooring; 17,000 shingles; 2,000 ft. finishing; 200 ft. $\frac{7}{8}$ wainscoting; 100 ft. $\frac{3}{8}$ ceiling; 16,000 lath; 2 doors glazed and transoms; 2 doors 2 8x6 8, 1 $\frac{3}{8}$ s, No. 1; 27 doors 2 6x6 6, 1 $\frac{3}{8}$ s, No. 1; 13 win. 12x28, 4 lt.; 11 win. 12x24, 1 lt.; 7 ps. 2x8 18 d and b; 900 ft. O G base; 1,500 ft. O G casing; 350 lbs. pl. paper; 300 lbs. tar paper; 2 cel. sash 8x10, 3 lt.; 290 ft. 4 $\frac{1}{2}$ in. O G crown moulding; 280 ft. 2 $\frac{1}{2}$ in. O G crown moulding; 110 ft. large drip; 110 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. nosing; 336 ft. blind stop; 336 ft. 1 $\frac{3}{8}$ O G stops; 620 ft. 1 $\frac{3}{8}$ s O G stops; 336 parting strips; 60 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. cap; 60 ft. $\frac{3}{4}$ x1 in. Scotia; 60 ft. $\frac{3}{4}$ in. quarter-round; 2 cords stone 12 in. high; 2,000 brick; 40 gal. paint; 30 bbls. lime; 3 bbls. stucco; 1 bbl. cement; 8 bu. hair; nails, 200 lbs. 20d, 200 lbs. 10d, 100 lbs. 8d, 60 lbs. 6d, 60 lbs. 3d com.; 100 lbs. 10d casing; 125 lbs. 3d fine; 31 mortise locks; 4 rim locks; 35 pair butts and screws; 6 doz. window spring bolts; 4 doz. wardrobe hooks; 7 thimbles, 6 in. Main part 28x30, 18 ft. high; front projection 6x14, 18 ft. high; back part 16x24, 12 ft. high; outside closet with one porch and one vestibule in front.

Design No. 13.

6 ps. 6x8 16; 2 ps. 6x8 14; 2 ps. 6x8 12; 46 ps. 2x8 16; 32 ps. 2x8 14; 7 ps. 2x8 12; 20 ps. 2x6 16; 10 ps. 2x6 14; 3 ps. 4x4 18; 54 ps. 2x4 20; 81 ps. 2x4 18; 60 ps. 2x4 16; 4 ps. 2x4 14; 69 ps. 2x4 12; 2,500 ft. sheathing, d 1 s; 1,400 ft. rough sheathing; 2,800 ft. siding; 2,100 ft. flooring; 11,000 shingles; 1,500 ft. finishing; 180 ft. $\frac{7}{8}$ wainscoting; 160 ft. $\frac{3}{8}$ ceiling; 9,000 lath; 1 glazed door and transom; 2 doors, 2 8x6 8 1 $\frac{3}{8}$ s No. 1; 9 doors, 2 6x6 6, 1 $\frac{3}{8}$ s No. 1; 15 win. 12x28, 4 lt.; 9 win. 12x24 4 lt.; 7 ps. 2x8 18 d and b; 450 ft. O G base; 750 ft. O G casing; 280 lbs. pl. paper; 175 lbs. tar paper; 2 cel. sash 8x10; 270 ft. 4 $\frac{1}{2}$ in. O G crown moulding; 270 ft. 2 $\frac{1}{2}$ in. O G crown moulding; 100 ft. large drip; 100 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. nosing; 340 ft. blind stop; 340 ft. parting strip; 340 ft. 1 $\frac{3}{8}$ s O G stop; 250 ft. 1 $\frac{3}{4}$ O G stop; 44 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. cap; 44 ft. $\frac{3}{4}$ x1 in. Scotia; 44 ft. $\frac{3}{4}$ in. quarter-round; stair rail, balusters and newel; 2 cords stone 15 in. high; 2,000 brick; 28 gal. paint; 17 bbls. lime; 1 bbl. stucco; 1 bbl. cement; 4 bu. hair; nails, 100 lbs. 20d, 200 lbs. 10d, 50 lbs. 8d; 40 lbs. 6d, 40 lbs. 3d com., 70 lbs. 3d fine, 50 lbs. 10d casing; 12 mortise locks; 14 pair butts and screws; 6 doz. win. springs; 3 doz. wardrobe hooks, 7 thimbles. Main part 16x26, 18 ft. high; front wing 14x16, 16 ft. high; back wing 12x14, 9 ft. high; 3 porches, 1 pantry, 1 hall and 1 bay window.

Design No. 14.

2 ps. 6x8 30; 4 ps. 6x8 16; 1 p. 6x8 18; 2 ps. 6x6 20; 1 p. 6x6 12; 76 ps. 2x8 16; 38 ps. 2x6 16; 15 ps. 2x6 20; 2 ps. 4x4 18; 130 ps. 2x4 18; 67 ps. 2x4 16; 96 ps. 2x4 12; 2,800 ft. sheathing d 1s; 1,600 ft. rough sheathing; 3,300 ft. siding; 2,440 ft. flooring; 13,000 shingles; 1,450 ft. finishing; 160 ft. $\frac{7}{8}$ wainscoting; 140 ft. $\frac{3}{8}$ ceiling; 9,500 lath; 5 doors, 2 8x8 8, $\frac{1}{8}$ No. 1; 11 doors, 2 6x6 6, $\frac{1}{8}$ No. 1; 13 win. 12x28, 4 lt.; 10 win. 12x24, 4 lt.; 7 ps. 2x8 18 d and b; 500 ft. O G base; 800 ft. O G casing; 300 lbs. pl. paper; 220 lbs. tar paper; 2 cel. sash, 8x10, 3 lt.; 400 ft. $\frac{1}{2}$ in. batts for lattice; 250 ft. $\frac{4}{2}$ in. O G crown moulding; 250 ft. $\frac{2}{2}$ in. O G crown moulding; 110 ft. large drip; 110 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. nosing; 300 ft. blind stop; 300 ft. parting strips; 300 ft. $\frac{1}{8}$ O G stop; 280 ft. 1 $\frac{3}{4}$ O G stop; 40 ft. 1 $\frac{1}{8}$ x2 $\frac{1}{2}$ in. cap; 40 ft. $\frac{3}{4}$ x1 in. Scotia; 40 ft. $\frac{3}{4}$ in. quarter-round; 2 cords stone 12 in. high; 1,500 brick; 30 gal. paint; 20 bbls. lime; 2 bbls. stucco; 5 bu. hair; 2 bbls. cement; nails, 100 lbs. 20d, 200 lbs. 10d, 100 lbs. 8d, 50 lbs. 6d, 45 lbs. 3d com., 70 lbs. 3d fine; 50 lbs. 10d casing; 16 mortise locks; 16 pr. butts and screws; 6 doz. win. springs; 3 doz. wardrobe hoops; 8 thimbles. Main part 16x30, 18 ft. high; wing on side 16x18, 18 ft. high; front porch and bay window; summer kitchen plastered; with back summer kitchen 12x20, 8 ft. high.

Design No. 15.

1 p. 6x8 24; 4 ps. 6x8 20; 2 ps. 6x8 14; 1 p. 6x8 18; 56 ps. 2x8 14; 12 ps. 2x8 18; 2 ps. 4x4 16; 30 ps. 2x4 20; 42 ps. 2x4 18; 80 ps. 2x4 16; 15 ps. 2x4 12; 75 ps. 2x4 10; 1,900 ft. sheathing d 1s; 1,100 ft. rough sheathing; 2,300 ft. siding; 1,650 ft. flooring; 9,000 shingles; 1,200 ft. finishing; 140 ft. $\frac{7}{8}$ wainscoting; 60 ft. $\frac{3}{8}$ ceiling; 9,500 lath; 1 glazed door and transom; 2 doors, 2 8x8 8, $\frac{1}{8}$ No. 1; 14 doors, 2 6x6 6, $\frac{1}{8}$ No. 1; 10 win. 12x28, 4 lt.; 7 win. 12x24, 4 lt.; 5 ps. 2x8 18 d and b; 500 ft. O G base; 780 ft. O G casing; 200 lbs. pl. paper; 150 lbs. tar paper; 2 cel. win. 8x10 3 lt.; 200 ft. $\frac{3}{2}$ in. O G crown moulding; 200 ft. 1 $\frac{1}{8}$ x1 $\frac{3}{8}$ in. Scotia; 80 ft. large drip; 80 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. nosing; 240 ft. blind stop; 240 ft. parting strips, 240 ft. 1 $\frac{3}{4}$ O G stop; 300 ft. 1 $\frac{3}{4}$ O G stop; 40 ft. 1 $\frac{1}{8}$ x2 $\frac{1}{2}$ in. cap; 40 ft. $\frac{3}{4}$ x1 in. Scotia; 40 ft. $\frac{3}{4}$ in. quarter-round; newel post, rail and balusters; 2 cords stone, 16 in. high; 1,000 brick; 24 gal. paint; 17 bbls. lime; 2 bbls. stucco; 1 bbl. cement; 5 bu. hair; nails, 100 lbs. 20d, 150 lbs. 10d, 60 lbs. 8d, 40 lbs. 6d, 30 lbs. 3d com., 50 lbs. 10d casing, 70 lbs. 3d fine; 17 mortise locks; 17 pair butts and screws; 4 $\frac{1}{4}$ doz. win. springs; 2 doz. wardrobe hooks; 7 thimbles 6 in. Main part 14x38, 16 ft. high. Side lean-to, 9x24, 9 ft. high. Porch and bay window.

Design No. 16.

5 ps. 6x8 18; 5 ps. 6x8 16; 4 ps. 6x8 24; 50 ps. 2x8 18; 12 ps. 2x8 16; 50 ps. 2x8 14; 25 ps. 2x6 20; 30 ps. 2x6 16; 3 ps. 4x4 18; 10 ps. 2x4 20; 157 ps. 2x4 18; 96 ps. 2x4 16; 2,300 ft. sheathing, d 1s; 1,500 ft. rough sheathing; 2,760 ft. siding; 2,900 ft. flooring; 12,000 shingles; 1,400 ft. finishing; 170 ft. $\frac{7}{8}$ wainscoting; 200 ft. No. 1 $\frac{3}{8}$ ceiling; 12,000 lath; 1 door glazed and transom; 1 door, 2 8x8 8, $\frac{1}{8}$ No. 1; 16 doors, 2 6x6 6, $\frac{1}{8}$ No. 1; 11 win. 12x28, 4 lt.; 13 win. 12x24, 4 lt.; 7 ps. 2x8 18 d and b; 600 ft. O G base; 940 ft. O G casing; 260 lbs. pl. paper; 200 lbs. tar paper; 2 cel. sash 8x10 3 lt.; 180 ft. $\frac{4}{2}$ in. O G crown moulding; 180 ft. $\frac{2}{2}$ in. O G crown moulding; 100 ft. large drip; 100 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. nosing; 340 ft. blind stop; 340 ft. parting strip; 340 ft. 1 $\frac{3}{4}$ O G stops; 320 ft. 1 $\frac{3}{4}$ O G stops; 50 ft. 1 $\frac{1}{8}$ x2 $\frac{1}{2}$ in. cap; 50 ft. $\frac{3}{4}$ x1 in. quarter-round; 2 cords stone, 18 in. high; 1,300 brick; 30 gal. paint; 22 bbls. lime; 2 bbls. stucco; 2 bbls. cement; 5 bu. hair; nails, 100 lbs. 20d, 200 lbs. 10d, 100 lbs. 8, 40 lbs. 6d, 40 lbs. 3d com., 50 lbs. 10d casing, 90 lbs. 3d fine; 18 mortise locks; 18 pair butts and screws; 6 doz. window springs; 4 doz. wardrobe hooks; 6 thimbles 6 inch. House 32x32, 18 ft.; pavilion roof with verandah in front.

Design No. 18.

5 ps. 6x8 24; 2 ps. 6x8 20; 1 p. 6x8 14; 8 ps. 2x8 16; 14 ps. 2x8 14; 72 ps. 2x8 12; 14 ps. 2x6 14; 4 ps. 4x4 16; 12 ps. 2x4 20; 28 ps. 2x4 18; 136 ps. 2x4 16; 8 ps. 2x4 14; 42 ps. 2x4 12; 22 ps. 2x4 10; 1,450 ft. sheathing, d 1 s; 1,360 ft. rough sheathing; 1,700 ft. siding, 2,000 ft. flooring; 11,000 shingles; 1,200 ft. finishing; 200 ft. 7⁸ wainscoting; 160 ft. 3⁸ ceiling; 8,000 lath; 1 door glazed and transom; 1 door, 2 8x6 8, 1³₈; 13 doors 2 6x6 6, 1³₈; 5 doors 2 0x6 0, 1¹₈; 11 win. 12x28 4 lt.; 3 win. 12x24 4 lt.; 4 ps. 2x8 18 d and b; 450 ft. O G base; 680 ft. O G casing; 160 lbs. pl. paper; 185 lbs. tar paper; 2 cel. sash 8x10, 3 lt.; 220 ft. 3¹₂ in. O G crown moulding; 220 ft. 1¹₈x1³₈ in. Scotia; 64 ft. large drip; 64 ft. 1¹₄x2¹₂ in. nosing; 200 ft. blind stop; 200 ft. parting strips; 200 ft. 1³₈ O G stop; 260 ft. 1⁴ O G stops; 50 ft. 1¹₈x2¹₂ in. cap; 50 ft. 3⁴x1 in. Scotia; 50 ft. 3⁴ in. quarter-round; 1¹₂ cords stone 12 in. high, 1,000 brick; 22 gal. paint; 16 bbls. lime; 1 bbl. stucco; 1 bbl. cement; 3 bu. hair; nails, 100 lbs. 20d, 200 lbs. 10d, 60 lbs. 8d, 30 lbs. 6d, 40 lbs. 3d com., 50 lbs. 10d casing, 60 lbs. 3d fine; 15 mortise locks; 5 rim locks; 20 pair butts and screws; 3¹₂ doz. window springs; 3 doz. wardrobe hooks; 7 thimbles, 6 in. Main part 24x24, 12 ft. high; ell part 14x20, 8 ft. high, with porch.

Design No. 19.

2 ps. 6x8 30; 2 ps. 6x8 20; 44 ps. 2x8 20; 16 ps. 2x4 20; 30 ps. 2x4 18; 40 ps. 2x4 16; 98 ps. 2x4 14; 1,500 ft. sheathing, d 1 s; 900 ft. rough sheathing; 1,800 ft. siding; 1,400 ft. flooring; 7,500 shingles; 900 ft. finishing; 150 ft. 7⁸ wainscoting; 7,500 lath; 2 doors glazed and transoms; 10 doors, 2 6x6 6, 1³₈; 11 win., 12x28 4 lt.; 4 win. 12x24 4 lt.; 4 ps. 2x8 18, d and b; 170 lbs. pl. paper; 125 lbs. tar paper; 400 ft. O G base; 600 ft. O G casing; 2 cel. sash, 8x10 3 lt.; stair rail, newel post and balusters; 120 ft. 3¹₂ in. O G crown moulding; 120 ft. 1¹₈x1³₈ in. Scotia; 70 ft. large drip; 70 ft. 1¹₄x2¹₂ in. nosing; 203 ft. blind stop; 200 ft. parting strip; 200 ft. 1³₈ O G stops; 200 ft. 1³₄ O G stops; 40 ft. 1¹₈x2¹₂ in. cap; 40 ft. 3⁴x1 in. Scotia; 40 ft. 3⁴ in. quarter-round; 1 cord stone 12 in. high; 1,000 brick; 17 gal. paint; 14 bbls. lime; 1 bbl. stucco; 1 bbl. cement; 4 bu. hair; nails, 60 lbs. 20d, 100 lbs. 10d, 50 lbs. 8d, 30 lbs. 6d, 25 lbs. 3d com., 40 lbs. 10d casing, 30 lbs. 3d fine; 12 mortise locks; 12 pr. butts and screws; 3¹₄ doz. win. springs; 2 doz. wardrobe hooks; 6 thimbles, 6-in. House 20x30, 14 ft. high.

Design No. 20.

2 ps. 6x8 32; 2 ps. 6x8 16; 6 ps. 6x8 14; 23 ps. 2x8 16; 18 ps. 2x8 14; 12 ps. 2x8 12; 25 ps. 2x6 16; 22 ps. 2x6 14; 2 ps. 4x4 16; 58 ps. 2x4 18; 16 ps. 2x4 16; 40 ps. 2x4 14; 50 ps. 2x4 12; 42 ps. 2x4 10; 1,460 ft. sheathing, d 1 s; 1,500 ft. rough sheathing; 1,800 ft. siding; 1,500 ft. flooring; 12,000 shingles; 1,000 ft. finishing; 180 ft. wainscoting; 160 ft. 3⁸ ceiling; 5,000 lath; 4 doors, 2 8x6 8, 1³₈, No. 1; 7 doors, 2 6x6 6, 1³₈, No. 1; 13 win. 12x28 4 lt.; 4 ps. 2x8 18, d and b; 250 ft. O G base; 500 ft. O G casing; 160 lbs. pl. paper; 200 lbs. tar paper; 2 cel. sash, 8x10 3 lt.; 230 ft. 3¹₂ in. O G crown moulding; 230 ft. 1¹₈x1³₈ in. Scotia; 70 ft. large drip; 70 ft. 1¹₄x2¹₂ in. nosing; 180 ft. blind stop; 180 ft. parting strip; 180 ft. 1³₈ O G stop; 200 ft. 1³₄ O G stop; 148 ft. 1¹₈x2¹₂ in. cap; 48 ft. 3⁴ in. quarter-round; 48 ft. 3⁴x1 in. Scotia; 1¹₂ cords stone, 12 in. high; 1,000 brick; 18 gal. paint; 11 bbls. lime; 1 bbl. stucco; 2 bu. hair; 1 bbl. cement; nails, 60 lbs. 20d, 140 lbs. 10d, 50 lbs. 8d, 30 lbs. 6d, 45 lbs. 3d com., 40 lbs. 3d fine, 50 lbs. 10d casing; 11 mortise locks; 11 pr. butts and screws; 3¹₄ doz. win. springs; 2 doz. wardrobe hooks; 3 thimbles. House 16x32, 2 wings, each 1¹₄x14, 9 ft. high; two porches and outside pantry.

Design No. 21.

2 ps. 6x8 28; 2 ps. 6x8 18; 42 ps. 2x8 18; 8 ps. 2x4 20; 28 ps. 2x4 18; 22 ps. 2x4 16; 56 ps. 2x4 14; 68 ps. 2x4 12; 1,400 ft. sheathing, d 1 s; 800 ft. rough sheathing; 6,500 shingles; 1,600 ft. siding; 1,200 ft. flooring; 700 ft. finishing; 140 ft. $\frac{7}{8}$ wainscoting; 6,500 lath; 2 doors 2 8x8, 1 $\frac{3}{4}$, No. 1; 7 doors 2 6x6 6, 1 $\frac{3}{4}$, No. 1; 7 win. 12x28 4 It.; 2 win. 12x24 4 It.; 3 ps. 2x8 18, d and b; 320 ft. O G base; 400 ft. O G casing; 160 lbs. pl. paper; 110 lbs. tar paper; 2 cel. sash; moulding, 110 ft. No. 2225, 110 ft. No. 2320; 44 ft. large drip; moulding, 44 ft. No. 2632; 120 ft. blind stop; 120 ft. parting strip; moulding, 120 ft. No. 2374, 160 ft. No. 2380, 36 ft. No. 2450, 36 ft. No. 2319, 36 ft. $\frac{1}{4}$ round No. 2326; 1 cord stone 14 in. high; 500 brick; 16 gal. paint; 12 bbls. lime; 1 bbl. stucco; 1 bbl. cement; 3 bu. hair; nails, 50 lbs. 20d, 100 lbs. 10d, 40 lbs. 8d, 25 lbs. 6d, 25 lbs. 3d com., 50 lbs. 3d fine, 40 lbs. 10d casing; 9 mortise locks; 9 pr. butts and screws; 2 $\frac{1}{4}$ doz. win. springs; 2 doz. wardrobe hooks; 4 thimbles, 6-in. House, 18x28, 14 ft. posts.

Design No. 22.

2 ps. 6x8 22; 2 ps. 6x8 24; 6 ps. 6x8 16; 110 ps. 2x8 16; 36 ps. 2x8 16; 100 ps. 2x4 20; 48 ps. 2x4 18; 68 ps. 2x4 16; 128 ps. 2x4 12; 13 ps. 2x4 10; 3,100 ft. sheathing, d 1; 2,240 ft. rough sheathing; 3,600 ft. siding; 3,230 ft. flooring; 18,000 shingles; 1,800 ft. finishing; 210 ft. $\frac{7}{8}$ wainscoting; 160 ft. $\frac{3}{4}$ ceiling; 12,500 lath; 2 doors glazed and transoms; 2 doors 2 8x8 8, 1 $\frac{3}{4}$; 17 doors 2 6x6 6, 1 $\frac{3}{4}$; 14 win. 12x32, 4 It.; 11 win. 12x28, 4 It.; 7 ps. 2x8 18 d and b; 560 ft. O G base; 1,000 ft. O G casing; 345 lbs. pl. paper; 310 lbs. tar paper; 2 cel. sash 8x10, 3 It.; 280 ft. 4 $\frac{1}{2}$ in. O G crown moulding; 280 ft. 2 $\frac{1}{2}$ in. O G crown moulding; 120 ft. large drip; 120 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$ in. nosing; 350 ft. blind stop; 350 ft. parting strip; 350 ft. 1 $\frac{3}{4}$ O stop; 360 ft. 1 $\frac{3}{4}$ O stop; 60 ft. 1 $\frac{1}{2}$ x2 $\frac{1}{2}$ in. cap; 60 ft. $\frac{3}{4}$ in. quarter-round; 60 ft. $\frac{3}{4}$ x1 in. Scotia; 3 cords stone 16 in. high; 2,500 brick; 37 gal. paint; 25 bbls. lime; 2 bbls. stucco; 5 bu. hair; 2 bbls. cement; nails, 150 lbs. 20d, 300 lbs. 10d, 100 8d, 60 lbs. 6d, 70 lbs. 3d com., 100 lbs. 3d fine, 100 lbs. 10d casing; 21 mortise locks; 21 pr. butts and screws; 6 $\frac{1}{4}$ doz. win. springs; 4 doz. wardrobe hooks; 8 thimbles. Main part 16x26; ell part 16x20, 20 ft. high; back part 16x16, 12 ft. high: three porches, vestibule, pantry and bath-room on the outside.

Design No. 23.

200 ps. 2x4 20s for studding; 13 ps. 8x8 20s, for sills; 45 posts 8x8 6 ft.; 5 trusses 8x8, 35 ft. for span; 192 ps. 2x6 10s for rafters; 2,400 ft. rough sheathing for side; 2,000 ft. rough sheathing for roof; 3,000 ft. planed siding; 2,600 ft. planed flooring; 2,900 shingles; 200 ft. water table; 47 ps. joist, 2x10 18s; 250 ft. in moulding for outside; 60 ft. of cresting; 150 ft. corner boards; 650 yds. of lath and plaster; 8 double windows complete; 2 sets double doors and 2 single complete; 300 ft. of 10-in. base; pews extra; 2,000 brick for chimneys.

Rural Architecture.

Design No. 24.

2 ps. 6x8 32; 3 ps. 6x8 30; 6 ps. 6x8 22; 6 ps. 6x8 20; 8 ps. 6x6 12; 6 ps. 6x6 14; 8 ps. 6x6 16; 6 ps. 6x6 20; 62 ps. 2x6 26; 34 ps. 2x6 20; 8 ps. 2x6 18; 8 ps. 2x6 16; 66 ps. 2x6 14; 40 ps. 2x10 12; 76 ps. 2x10 14; 60 ps. 2x10 20; 25 ps. 4x4 16; 65 ps. 2x4 12; 52 ps. 2x4 16; 40 ps. 2x4 20; 4,800 ft. 2-in. plank; 8,100 ft. ship lap; 1,000 ft. stock, d 1 s; 8,800 ft. sheathing; 40,000 shingles; 4,600 ft. O G batts; 6 win. 8x10 12 ft. pl.; nails, 100 lbs. 30d, 200 lbs. 20d, 500 lbs. 10d, 25 lbs 6d, 150 lbs. 3d, 25 lbs. 8d clinch; strap hinges, 5 pr. 8-in., 9 pr. 10-in.; 12 hooks and staples; 5 hasps and staples; 1 cord stone for pillars; 28 gal. paint. Barn, main part 40x60, 14 ft. high; ell or shed, 30x40; 10 ft. high, open front.

Design No. 25.

3 ps. 6x8 28; 2 ps. 6x8 20; 13 ps. 2x10 20; 15 ps. 2x8 20; 2 ps. 4x4, 16; 10 ps. 2x4 20; 8 ps. 2x4 18; 16 ps. 2x4 16; 80 ps. 2x4 14; 1,120 ft. 2-in. plank; 2,300 ft. ship lap; 250 ft. stock, d 1 s; 1,300 ft. rough sheathing; 7,000 shingles; 1,500 ft. O G batts; 4 win. 10x12, 8 ft. pl.; 1/4 cord stone; 1 pr. rollers and 16 ft. track, 3 pr. 10 in. strap hinges; 3 hooks and staples; 1 hasp and staple; nails, 60 lbs. 20d, 200 lbs. 10d, 25 lbs. 6d, 25 lbs. 3d coarse, 15 lbs. 8d clinch; 10 gal. paint. Barn 20x28, 14 ft.

Design No. 26.

200 lineal ft. 8x10 for main sills; 150 lineal ft. 8x8 for cross sills; 150 lineal ft. 6x6 for cross girths; 16 ps. 8x8 16s for posts; 200 lineal ft. 6x8s for plates; 200 lineal ft. 6x8s for girths; 52 ps. 2x4 10s for studs for bins, stables, etc.; 20 ps. 2x8 12s for studs between carriage room and mow; 20 ps. 2x6 12s for studs between carriage room and corn crib; 20 ps. 2x6 16s for studs for end of corn crib; 24 ps. 2x8 16s for floor joists for carriage room and corn crib; 24 ps. 2x8 12s for floor joists for drive-way; 24 ps. 2x8 8s (16s) for floor joists for bins; 24 ps. 2x8 20s for floor joists for stable; 2 ps. 4x4 16s for stringer under stable; 2,800 ft. 2x8 joists under floor of loft, which is over stable, bins, carriage room and corn crib; 72 ps. 2x6 22s (or 20s) for rafters; 36 ps. 2x4 12s for collar beams; 3,200 ft. dressed dimension boards for siding; 800 ps. 3-in. O G battens; 540 ft. flooring for doors; 2,500 ft. common boards for roofing; 30,000 shingles; 3,000 ft. 2-in. plank; 1,150 ft. matched dimension boards for floor or loft; 600 ft. matched dimension boards for bins; 350 ft. 1 1/2-in. plank for mangers, etc.; 360 ft. common boards for partition between carriage room and hay mow; 270 ft. 3-in. battens between carriage room and crib; 2 ps. 2x4 16s for ladder posts in front of mow; 136 lineal ft. 4x4s for braces; 135 ft. dressed dimension boards for ventilator shaft; 2 windows 8-light, 8x12, 2 cellar sash, 3-light, 10x12, over small doors (not indicated in cuts).

Design No. 27.

For sills: 2 ps. 8x10 34 0; 2 ps. 8x10 22 0; 1 ps. 8x10 16 0. For girders: 3 ps. 10x10 20 0; 2 posts 8x8 14 0. For joists: 46 ps. 2x10 22 0; 48 ps. 2x10 14 0; 12 ps. 2x10 18 0; 20 ps. 2x8 22 0; 24 ps. 2x8 14 0; 25 ps. 2x8 12 0; 120 ps. 2x4 22 0; 230 ps. 2x4 20 0; 36 ps. 2x4 16 0; 16 ps. 2x4 14 0; 27 ps. 2x4 12 0; 6 ps. 2x10 20 0; 8 ps. 2x10 14 0. Six 6 in. x 6 ft. cedar posts; 5,300 ft. com. bds. d 1 s; 24,000 A shingles; 1,000 shingles, cut corners; 3,600 ft. siding; 335 yards No. 2 wool felt; 900 lineal ft. 2x2 bridging; 275 lineal ft 1x6 ribbon bands; 23 ps. 14 and 23 ps. 16 ft. 1 $\frac{1}{4}$ x5, beaded corner boards; 3,000 ft. 5 $\frac{1}{2}$ in. flooring; 1,500 ft. 5 $\frac{1}{2}$ in. fencing d 6 m; 14 ps. 6x16 0 ridge boards; 200 lin. ft. 5" crown mould, No. 2201 Standard Moulding Book; 200 lin. ft. 3" facie; 200 lin. ft. 2" bed mould, No. 2577 Standard Moulding Book; 200 lin. ft. 12" soffit; 200 lin. ft. 14" frieze; 180 lin. ft. 1 $\frac{1}{4}$ x7 water table; 1 staircase, 22 ft. 3x4 rail; 32-2 $\frac{1}{4}$ " turned balusters; 1-7" square newel post; 3 flights back stairs. Doors, 1 $\frac{3}{4}$ " sunk mould, chamfered edges; 2-2 4x7 0; 1-2 8x7 6; 2-3 0x8 0; 3-2 8x7 6; 3-2 4x7 6; 2-2 8x7 6; 1-2 8x7 6. Doors, 1 $\frac{3}{8}$ " P G mould; 1-2 4x7 0; 1-2 6x7 0; 1-2 8x7 0; 4-2 8x7 0; 5-2 4x7 0; 1-2 8x7 0; 1-2 6x7 0; 1-3 0x6 6; 1 transom sash, 1 $\frac{3}{4}$ ", 1 light, 14x52; 4 transom sash, 1 $\frac{3}{8}$ ", 4 lt. 12x28; 1 plank frame and sash, 1 $\frac{3}{8}$ ", 1 light, 14x26; 3 do. 6 ft. 14x14; 1 do. 2 lt. 12x14.

WINDOW FRAMES AND SASH, 1 $\frac{3}{8}$ " THICK.

2 mullion, 2 lt. 28x38; 2 window 2 lt. 28x28; 2 window, 2 lt. 18x38; 1 mullion, 4 lt. 16x38; 1 window, 4 lt. 15x38; 1 window, 4 lt. 14x38; 1 window, 2 lt. 14x38; 1 mullion, 4 lt. 28x36; 4 window, 8 lt. 28x36; 2 window, 4 lt. 26x36; 2 window, 8 lt. 14x36; 1 window, 2 lt. 15x36; 2 window, 4 lt. 16x36; 3 window, 6 lt. 20x36; 1 oval, 1 lt. 18x36; 1 round, 1 lt. 20x20; 1 window, 4 lt. 12x24; 1 window, 2 lt. 18x20.

450 lin. ft. 7 $\frac{1}{2}$ x5 O G casings; 600 lin. ft. 1 $\frac{1}{2}$ x6 door frames; 650 lin. ft. 7 $\frac{1}{2}$ x5 O G casings and mouldings; 250 lin. ft. 7 $\frac{1}{2}$ x8 carved plinth; 250 lin. ft. 7 $\frac{1}{2}$ x2 $\frac{1}{2}$ moulding, No. 2994 Standard Moulding Book; 250 lin. ft. 4" round moulding; 350 lin. ft. 7 $\frac{1}{2}$ x5 pine, d m & b; 50 lin. ft. 7 $\frac{1}{2}$ x1 $\frac{1}{2}$ moulding; 38 ps. 1 $\frac{1}{2}$ x5 $\frac{1}{2}$ x16 0 beaded and chamfered casings; 55 head blocks, 1 $\frac{3}{8}$ x5 $\frac{1}{2}$ x11 with turned rosettes; 38 plinth blocks, 1 $\frac{3}{8}$ x5 $\frac{1}{2}$ x10 $\frac{1}{2}$ moulded and beaded; 160 lin. ft. 7 $\frac{1}{2}$ x5 O G plinths; 190 lin. ft. 7 $\frac{1}{2}$ x8 coved, beaded plinths, No. 3076 Standard Moulding Book; 190 lin. ft. 2 $\frac{1}{2}$ " base mould, No. 3075 Standard Moulding Book; 190 lin. ft. 4" round moulding, No. 2324 Standard Moulding Book; 24 lin. ft. 7 $\frac{1}{2}$ x16 shelving; 18 lin. ft. 7 $\frac{1}{2}$ x18 shelving; 100 lin. ft. 7 $\frac{1}{2}$ x12 shelving; 100 lin. ft. 7 $\frac{1}{2}$ x3 beaded strips; 120 lin. ft. 1 $\frac{1}{2}$ x6 moulded stools, No. 2423 Standard Moulding Book; 120 lin. ft. 7 $\frac{1}{2}$ x5 O G apron, No. 2455 Standard Moulding Book; 120 lin. ft. of 7 $\frac{1}{2}$ x2 O G apron mould, No. 2397 Standard Moulding Book; 2 sets of drawers, 2' 6" wide; 65 lin. ft. 1 $\frac{1}{2}$ x27 moulded belt; 53 lin. ft. 1 $\frac{1}{4}$ " roof cresting; 17 pairs of inside blinds 1 $\frac{1}{4}$ " thick; 11 pairs outside blinds 1 $\frac{1}{4}$ " thick; 38 ps 1 $\frac{1}{2}$ x6x16 0 outside beaded casings; 8 brackets for hoods; 4 brackets for bay window; 80 lin. ft. 1 $\frac{1}{2}$ x6; 6 brackets for porch; 850 lin. ft. 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ O G stops, No. 2381 Standard Moulding Book; 3 ps 1 $\frac{3}{8}$ x12x16 0 beaded verge board; 35 turned rosettes; 6 ps 1 $\frac{1}{2}$ x10x12 0; 20 turned balusters, 2x2x10 porch; 26 turned balusters, 3x3x18; 30 lin. ft. moulded cornice; 4 7-inch turned posts; 3 moulded and beaded newel posts 8x8; 25 lin. ft. 3 $\frac{1}{2}$ x6 beaded rails; 80 lin. ft. 7 $\frac{1}{2}$ x4 b w thresholds; 9 black walnut 1 $\frac{1}{2}$ " turned angle beads.

HARDWARE.

200 lbs. 6 penny common nails; 3 kegs 20 penny spikes; 1 keg 10 penny casing nails; 1 keg 6 penny casing nails; 2 kegs 10 penny common nails; 126 lbs shingle nails; 116 sash weights; 10 hanks of Italian cable sash cord; 23 black walnut rubber tipped bennpers; 42 Berlin bronze sash lifts; 14 Japanned sash lifts; 23 Morris' patent Berlin bronze sash locks;

5 Japanned sash locks; 6 pair Berlin bronze drawer pulls; 4 Berlin bronze sprin transom locks; 8 swivel springs; 22 pair blind hinges, catches and fastenings; 50 Japanned hat and cloak hooks; 1 set Warner's sheaves and hardwood track; 1 Branford's mortise sliding door lock; 1 pair Berlin bronze cups; 15 Branford's mortise locks; 9 Branford's mortise latches; 1 rim lock; 1 Branford's mortise 3-tumbler front door lock and night latch; 9 pair 2 $\frac{1}{2}$ in. jet knobs and bronze trimmings; 16 pair 2 $\frac{1}{4}$ in white porcelain knobs and plated trimmings, all locks to have brass face and striking plates; 1 2 $\frac{1}{2}$ in. jet bell pull and bronze trimmings, 60 ft. copper wire and 4 cranks; 138 pair 2 in. butts and back flaps and screws; 1 flush bolt 12 in. long; 1 flush bolt 18 in. long; 2 mortise thumb latches; 1 pair trap door hinges and padlock; 27 pair 4 $\frac{1}{4}$ x 2 $\frac{1}{2}$ loose pine butts; 5 pair 3x3 butts; 5 3-in. barrel bolts; 1 6-in. barrel bolt; 1 pair 4x4 butts; 59 squares of 2 coat painting.

MASON WORK.

190 yards excavating; 14 cords Rubble stone; 4,000 common brick; 1,867 yards plastering; 2,700 lath; 5 window sills, 4x8x3 4 (cut stone).

Design No. 28.

Lumber: 7 ps. 8x8 32; 8 ps. 8x8 26; 6 ps. 6x8 26; 2 ps. 8x8 24; 14 ps. 8x8 22; 100 ps. 2x6 22; 2 ps. 6x6 20; 5 ps. 4x6 20; 2 ps. 4x4 20; 7 ps. 2x8 20; 4 ps. 8x8 18; 2 ps. 6x8 18; 16 ps. 4x4 18; 4 ps. 8x8 16; 9 ps. 6x6 16; 11 ps. 4x6 16; 19 ps. 4x4 16; 14 ps. 2x8 16; 8 ps. 2x6 16; 28 ps. 2x4 16; 35 ps. 2x12 16; 3 ps. 6x6 14; 2 ps. 4x6 14; 10 ps. 4x4 14; 30 ps. 2x8 14; 2 ps. 2x6 14; 2 ps. 8x8 12; 4 ps. 6x6 12; 10 ps. 4x6 12; 30 ps. 4x4 12; 126 ps. 2x8 12; 14 ps. 2x6 12; 18 ps. 2x4 12; 7 ps. 2x14 12; 55 ps. 2x10 12; 28,000 shingles; 2,160 ft. 16 ft. com. boards; 1,400 ft. 14 ft. com. boards; 800 ft. 16 ft. fencing; 2,730 ft. 16 ft. fencing flooring; 175 ft. 14 ft. fencing flooring; 350 ft. 12 ft. fencing flooring; 2,000 ft. 14 ft. D stock, s 1 s; 1,152 ft. 18 ft. D stock, s 1 s; 3,000 ft. 16 ft. D stock, s 1 s; 5,000 lineal ft. 2 $\frac{1}{2}$ in. O G battens; 6 windows, 9x12, 12-lit., com. glazed; 4 sash, 9x12, 5-lit., glazed. Hardware: 10 rods 9 6x $\frac{1}{8}$; 50 lbs. 30d spikes; 100 lbs. 20d spikes; 25 lbs. 8d clinch nails; 125 lbs. 4d com. nails; 400 lbs. 10d com. 4 pairs large door hangers, No. 2; 6 pairs small door hangers, No. 1; 8 pairs 10 in. strap hinges; 7 large hook hasps and staples; 12 pairs 6 in. T hinges with screws; 100 ft. iron track with screws. *a*—Outside sill; *b*—manure drop, cut in joists 4x18; *c*—4x6 supports for joists; *d*—stanchion; *e*—mangers; *f*—meal bin; *g*—cross sill; *h*—joist for floor.

Useful Information.

NAILS.

Nails are put up 100 pounds to the keg.

SIZES.	LENGTH INCHES.	NAILS IN A POUND.	SIZES.	LENGTH INCHES.	NAILS IN A POUND.
3d fine blued . . .	1 $\frac{1}{2}$	725	6d fence . . .	2	80
3d common blued . . .	1 $\frac{1}{4}$	400	8d " . . .	2 $\frac{1}{2}$	50
4d " " . . .	1 $\frac{1}{2}$	300	10d " . . .	3	30
6d " " . . .	2	150	12d " . . .	3 $\frac{1}{4}$	27
8d " " . . .	2 $\frac{1}{2}$	85	16d " . . .	3 $\frac{1}{2}$	20
10d " " . . .	3	60	6d finishing . . .	2	317
12d " " . . .	3 $\frac{1}{4}$	50	8d " . . .	2 $\frac{1}{2}$	208
16d " " . . .	3 $\frac{1}{2}$	40	10d " . . .	3	126
20d " " . . .	4	20	6d clinching . . .	2	118
30d " " . . .	4 $\frac{1}{2}$	16	8d " . . .	2 $\frac{1}{2}$	80
40d " " . . .	5	14	10d " . . .	3	45
50d " " . . .	5 $\frac{1}{2}$	11			
60d " " . . .	6	8			

Five pounds of 4d, or 3 $\frac{1}{4}$ pounds of 3d will lay 1,000 shingles. Five and three-quarters pounds of 3d nine will put on 1,000 lath.

Quantity of Seeds Required per Acre.

Wheat	1 $\frac{1}{2}$ to 2 bu.	Beets	3	Ibs.
Rye	1 $\frac{1}{2}$	" Carrots	2	"
Oats	3	" Ruta bagas	$\frac{3}{4}$	"
Barley	2	" Millet	$\frac{1}{2}$	bu.
Peas	2 to 3 "	" Clover, white	4	qts.
White beans	1 $\frac{1}{2}$	" Clover, red	8	"
Buckwheat	$\frac{1}{2}$	" Timothy	6	"
Corn, broadcast	4	" Orchard grass	2	bu.
Corn in drills	2 to 3 "	" Red top	1 to 2	pks.
Corn in hills	4 to 8 qts.	" Blue grass	2	bu.
Broom corn	$\frac{1}{2}$ bu.	" Mixed lawn grass	1 to 2	"
Potatoes	10 to 15 "	" Tobacco	2	oz.

Hills in an Acre of Ground.

40 feet apart	27 hills.	8 feet apart	680 hills.
35 "	35 "	6 "	1,210 "
30 "	48 "	5 "	1,732 "
25 "	69 "	8 $\frac{1}{2}$ "	3,556 "
20 "	108 "	3 "	4,840 "
15 "	193 "	2 $\frac{1}{2}$ "	6,969 "
12 "	302 "	2 "	10,890 "
10 "	435 "	1 "	43,560 "

Useful Information.

MEASURES OF SURFACE.

Table of Ordinary Units.

144 sq. in.=1 sq. ft.	9 sq. ft.=1 sq. yd.
30 $\frac{1}{4}$ sq. yds.=1 sq. rod.	160 sq. rods=1 acre.
640 acres=1 sq. mile or section.	36 sections=1 township.

Comparative Table.

SQ. MI.	ACRES.	SQ. RODS.	SQ. YDS.	SQ. FT.	SQ. IN.
= 640	= 102,400	= 3,097,600	= 27,878,400	= 4,014,489,600	
1 =	160 =	4,840 =	43,560 =	6,272,640	
	1 =	30 $\frac{1}{4}$ =	272 $\frac{1}{4}$ =	39,204	
		1 =	9 =	1,296	
			1 =	144	

Surveyors use the following table in measuring land:

625 sq. links make 1 pole.	640 acres make 1 sq. chain.
16 poles make 1 sq. chain.	36 sq. miles (6 miles sq.) township.
10 sq. chains make 1 acre.	

Comparative Table.

TP.	SQ. MILES.	ACRES.	SQ. CHAINS.	POLES.	SQ. LINKS.
1 =	36 =	23,040 =	230,400 =	3,686,400 =	2,340,000,000
	1 =	640 =	6,400 =	102,400 =	6,400,000
		1 =	10 =	160 =	100,000
			1 =	16 =	10,000
				1 =	625

The square foot is used in estimating glazing, stone-cutting, etc.; the square yard in plastering, roofing, paving, etc.; the acre in measuring land.

Solid or Cubic Measure.

1728 cu. inches make one cu. foot.	46,656 cu. inches make one cu. yard.
27 cubic feet make one cubic yard.	
40 cu. ft. of round timber=1 ton.	50 cu. ft. of hewed timber=1 ton.
42 cu. ft. of shipping timber=1 ton.	128 cu. ft.=1 cord.

Timber in one load—English.

50 cu. ft. of square timber.	200 lin. ft. 3 in. planking 12 in. wide.
109 lin. ft. of 6x12 in. "	300 " 2 in. " "
200 " of 6x6 "	400 " 1 $\frac{1}{2}$ in. " "
150 " in. planking 12 in. wide.	600 " 1 in. " "

Liquid Measure.

The United States standard for measurement of all liquids is the "wine" or "Winchester" gallon containing 231 cubic inches.

4 gills make one pint.	31 $\frac{1}{2}$ gallons make one barrel.
2 pints " quart.	2 barrels " hogshead.
4 quarts " gallon.	

Dry Measure.

The Government standard of dry measure of the United States is the "Winchester Bushel" so called, being a cylindrical vessel having an inside

Useful Information.

diameter of $18\frac{1}{2}$ inches, and a depth of 8 inches, and containing 2150.42 cubic inches.

4 gills make one pint,	8 quarts make one peck,
2 pints " quart.	4 pecks " bushel

Measures of Weight.

The Pound is the United States standard of weight as applied to general purposes, and is the weight of 27,7015 cubic inches of distilled water, at its greatest density (*i. e.* at $39^{\circ} 83'$ Farenheit, the barometer being at 30 inches), and is equivalent to 7,000 Troy grains.

27 11-32 grains make one dram.	25 pounds make one quarter.
16 drams " ounce.	4 quarters make one cwt.
16 ounces " pound.	20 cwt. " ton.

(In some cases the following table for gross weight is used: 28 lb.=1 quar.; 4 quar.=1 cwt.; 20 cwt., or 2240 lbs.=1 ton.

Comparative Table of Weights.

TROY.	APOTHECARIES.	AVOIRDUPOIS.
1 pound equals 5,760 grains.	equals 5,760 grains,	equals 7,000 grains.
" 480 "	" 480 "	" 437.5 "
175 pounds	175 pounds	144 pounds.

The half peck, or dry gallon, contains 268.8 cubic inches. Six quarts, dry measure, are equal to nearly 7 quarts, liquid measure.

CARPENTER'S, PLASTERER'S AND BRICKLAYER'S WORK.

To find how many Square Yards in a Floor or Wall; multiply the length by the width or height, and divide the product by 9.

How many Square Yards in a Floor 18 ft. long and 14 ft. wide; and how many yards of Carpet $\frac{14 \times 18 = 252 \text{ sq. feet}}{9)252(28 \text{ sq. yds.}}$ $\frac{28}{4}$

To divide by a Fraction, multiply the number by the denominator, and divide the product by the numerator.

To multiply by a Fraction, multiply by the numerator and divide by the denominator.

Find how many Square Yards in the four walls and ceiling of a room 18 by 20, 11 ft. high; and the Cost of plastering the same at 15 cts. per sq. yd.

The length of the four walls is twice 20 and twice 18) 76 feet which multiplied by the hight, gives the sq. ft. in the walls. The length multiplied by the width, gives the sq. ft. in the ceiling.

To measure Square Timbers: multiply the length, width and thickness together, and divide the product by 12.

How many square feet in a joist 2 by 8, 18 ft. long?

$$2 \times 8 \times 18 = 288 \div 12 = 24 \text{ ft. Ans.}$$

Sill 8 by 8, 22 ft. long? $8 \times 8 \times 22 = 1408 \div 12 = 117\frac{1}{3} \text{ ft. Ans.}$

Useful Information.

GRAIN MEASURE.

To find the capacity of a Bin or Wagon-bed; multiply the cubic feet by $\frac{8}{3}$ (tenths). For great accuracy, add $\frac{1}{3}$ of a bushel for every 100 cubic feet.

To find the cubic ft., multiply the length, width and depth together.

Find the capacity of a Bin 4 ft. wide, 5 ft. deep, and 15 ft. long. $4 \times 5 \times 15 = 300$ cubic ft.

To get the exact answer, 1 bu. is added for the 800 cu. ft. $\underline{\quad .8}$
Ans. 240.0 bus.

How many bus. will a Wagon-bed hold, 10 ft. long, 3 ft. wide, 18 in. or $1\frac{1}{2}$ ft. deep? $1\frac{1}{2} \times 3 \times 10 = 45$ cubic feet
~~A Bed~~ A Bed 10 ft. long and 3 ft. wide, will hold 2 bus. for every INCH in depth. $\underline{\quad .8}$
Ans. 36.0 bus.

EAR CORN MEASURE.

To find the contents of a Corn crib; multiply the cubic feet by 4 and divide the product by 9 $\frac{1}{4}$.

Find the contents of a Corn crib 18 ft. long, 7 ft. wide and 8 ft. high. $7 \times 8 \times 18 = 1008$ cu. ft.

*Note.—This allows $2\frac{1}{4}$ cubic feet for a bus. It is the rule most generally used, and will hold out in ordinary good corn, even if measured at the time it is cribbed. $\underline{\quad .4}$
Ans. 448 bus.

CISTERN MEASURE.

To find the capacity of a round Cistern or Tank; multiply the square of the average diameter by the depth, and take 3-16 of the product. For great accuracy, multiply by 1865 instead of taking 3-16.

Four square Cisterns or Tanks; multiply the cu. ft. by $2\frac{3}{8}$ (tenths).

Find the capacity of a round Cistern, 6 ft. in diameter and 8 ft. deep. $6 \times 6 \times 8 = 288$
Ans. 54 bbls. of $31\frac{1}{2}$ gals. $\underline{\quad .3}$
16)864(54 bbls.

How many barrels will a square Tank hold, 10 ft. long, 7 ft. wide and 6 ft. deep? $6 \times 7 \times 10 = 420$ (cubic feet) $\times 2\frac{3}{8} = 99\frac{3}{4}$ bbls. Ans.

LAND MEASURE.

To find the number of acres in a body of land; multiply the length by the width (in rods), and divide the product by 160. When the opposite sides are unequal, add them, and take half the sum, for the mean length or width.

Find how many Acres in a field, 96 rods long and 40 rods wide at one end, and 45 at the other. Ans. $25\frac{1}{2}$ acres. $2)85 = 40 \times 45$ 96 Length.
 $42\frac{1}{2}$ mean width, $42\frac{1}{2}$
 $160)4080(25\frac{1}{2}$ acres.

SHINGLES

required in a Roof. To the Square Foot, it takes 9 if exposed 4 inches; 8 if exposed $4\frac{1}{2}$ inches, and 7 1-5 if exposed 5 inches to the weather.

Find the number of Shingles required to cover a roof 38 ft. long, and the rafters on each side 14 ft. Shingles exposed $4\frac{1}{2}$ inches.

$28 \times 38 = 1064$ (sq. ft.) $\times 8 = 8512$ shingles. Ans.
To find the length of rafters, giving the roof *one-third* pitch, take three-eighths of the width of the building. If the building is 30 feet wide, they must be 18 feet long, exclusive of projection.

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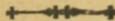
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By ERNEST A. YOUNG



WE predict for Mr. Young a great future as a writer of fiction. His first venture into authorship has met with such success as is not usually accorded a new author. In three months from the date of its issue over 29,000 copies of this, his first book, have been sold, *and solely on its merit*, as not any money was spent in advertising the work.

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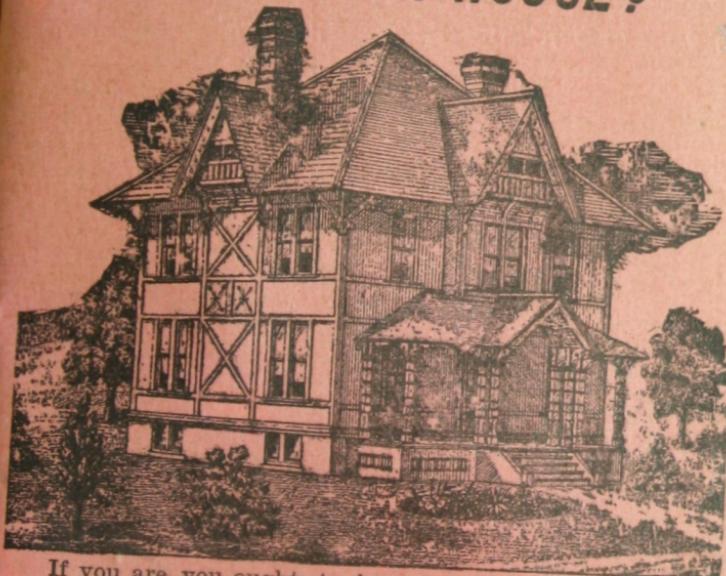
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